ORDER NO. IC2

Service Manual

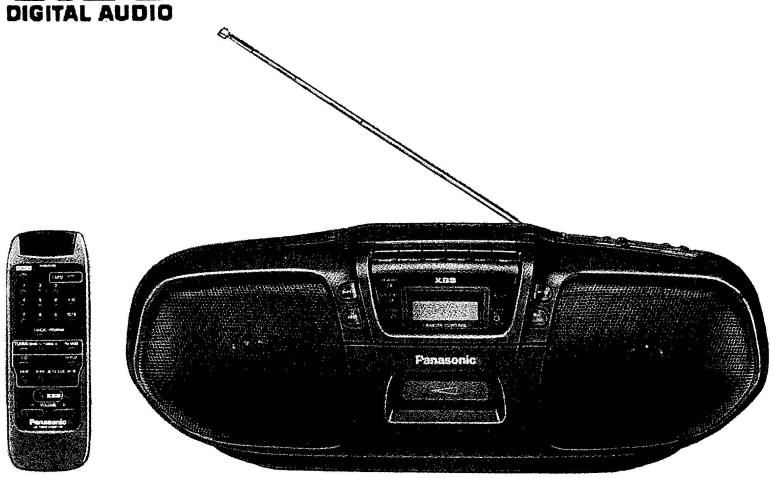
Portable Stereo CD System

Radio Cassette

RX-DS25

COMPACT disc DIGITAL AUDIO

MASH* multi-stage noise shaping



Colour

(K) . . . Black Type

Area

Suffix for Model No.	Area	Colour
(EB)	Great Britain	(K)
(EG)	Europe, Germany and Italy	

* MASH is a trademark of NTT.

TAPE DECK : SG-20 MECHANISM SERIES
TRAVERSE DECK : RAE0113Z MECHANISM SERIES

■ SPECIFICATIONS

■ Radio

Frequency range	
FM	87.50 – 108.00 MHz
LW	144 – 288 kHz
MW	522 – 1611 kHz
Intermediate frequency	
FM	10.7 MHz
AM	459 kHz
Sensitivity	
FM	13 dB/50 mW (– 3 dB limit sens.)
LW	55 dB/m/50mW
MW	51 dB/m/50mW

■ CD Player

Sampling frequency	44.1 kHz
Decoding	16 bit linear
Beam source	Semiconductor laser (wavelength 780nm)
No. of channels	2 channel, stereo
Wow and flutter	Less than possible measurement data
D/A converter	MASH (1 bit DAC)

■ Tape Recorder

Track system	4 track, 2 channel, stereo
Recording system	AC bias
Erasing system	Multi pole magnet
Monitor system	Variable sound monitor
Frequency range	
Normal	50 – 14000 Hz

■ General

Power requirement	
AC	230 – 240V, 50Hz Power consumption; 40W
Battery	12V (8 UM-1, R20/LR20 batteries)
Memory Back-up for Computer	6V (4 UM-3, R6/LR6 batteries)
Speakers	10 cm x 2
Jacks	
Input	MIC: 5 mV/(200 ~ 600Ω)
Output	Headphones: 32Ω
Dimensions (W x H xD)	489 x 170 x 252mm
Weight	3.8 kg without batteries

Note :
Specifications are subject to change without notice
Weight and dimensions are approximate.

Panasonic

■ CONTENTS

PAGE

- PRECAUTION OF LASER DIODE ..... 2 & 3
- HANDLING PRECAUTIONS FOR TRAVERSE DECK 4
- CAUTION FOR AC MAINS LEAD 5
- LOCATION OF CONTROLS 6
- DISASSEMBLY INSTRUCTIONS ..... 7 ~ 15
- TERMINAL GUIDE OF ICs ,TRANSISTORS & DIODES 15
- SCHEMATIC DIAGRAM ..... 16 ~ 26
- PRINTED CIRCUIT BOARD ..... 27 ~ 30
- TERMINAL FUNCTION OF IC'S ..... 31 ~ 34

PAGE

- MEASUREMENTS AND ADJUSTMENTS ..... 34 ~ 37
- DIGITAL SERVO SYSTEM 38
- TROUBLESHOOTING GUIDE 39
- WIRE CONNECTION DIAGRAM 40
- MECHANISM PARTS LIST 41
- MECHANISM PARTS LOCATION 42
- CABINET PARTS LOCATION ..... 43 & 44
- REPLACEMENT PARTS LIST ..... 45 ~ 48
- RESISTORS & CAPACITORS ..... 49 ~ 52
- PACKING MATERIALS & ACCESSORIES 52

■ PRECAUTION OF LASER DIODE

CAUTION : This product utilizes a laser diode with the unit turned "on", invisible laser radiation is emitted from the pickup lens.

Wave length : 780 nm
Maximum output radiation power from pick up : 100 μW/VDE

Laser radiation from the pick up lens is safety level, but be sure the followings:

1. Do not disassemble the optical pick up unit, since radiation from exposed laser diode is dangerous.
2. Do not adjust the variable resistor on the pickup unit. It was already adjusted.
3. Do not look at the focus lens using optical instruments.
4. Recommend not to look at pick up lens for a long time.

ACHTUNG: Dieses produkt enthält eine laserdiode. Im eingeschalteten zustand wird unsichtbare laserstrahlung von der lasereinheit abgestrahlt.

Wellenlänge : 780nm
Maximale strahlungsleistung der lasereinheit :100μW/VDE

Die strahlung an der lasereinheit ist ungefährlich, wenn folgende punkte beachtet werden:

1. Die lasereinheit nicht zerlegen, da die strahlung an der freigelegten laserdiode gefährlich ist.
2. Den werksseitig justierten einstellregler der lasereinhit nicht verstellen.
3. Nicht mit optischen instrumenten in die fokussierlinse blicken.
4. Nicht über längere zeit in die fokussierlinse blicken.

■ USE OF CAUTION LABELS

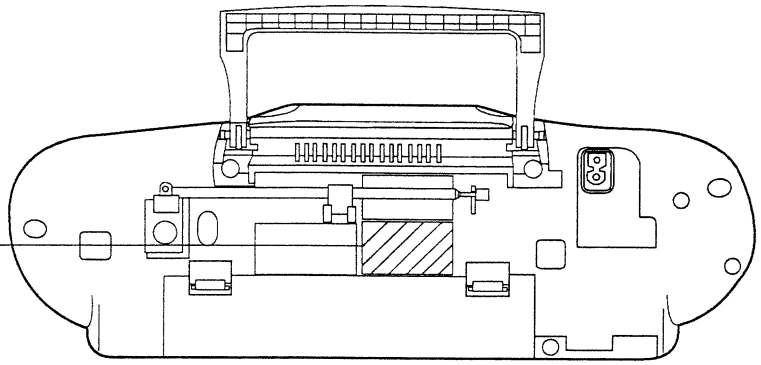
Note : O mark indicate that caution label is used in that area.
X mark indicate that caution label is not used in that area.

Area	RQT4389ZAA	RQLS0078	RQLS0025
(EB)	O	X	O
(EG)	O	O	O

RQT4389ZAA

CLASS1
LASER PRODUCT
RQT4389ZAA

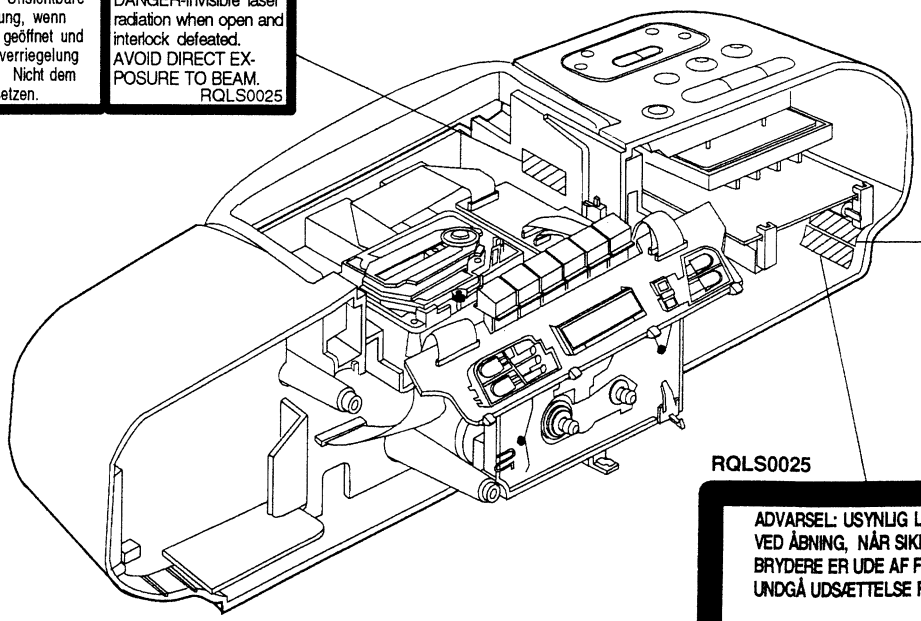
LUOKAN 1 LASERLAITE
KLASS 1 LASER APPARAT



RQLS0025

VORSICHT-Unsichtbare Laserstrahlung, wenn Abdeckung geöffnet und Sicherheitsverriegelung überbrückt. Nicht dem Strahl aussetzen.

DANGER-Invisible laser radiation when open and interlock defeated. AVOID DIRECT EXPOSURE TO BEAM.
RQLS0025



RQLS0078
(for EG area only)

VARO! Avattaessa ja suojalukitus ohitettaessa olet alttiina näkymätön lasersäteilylle. Älä katso säteesen.

VARNING! Osynlig laserstrålning när denna del är öppnad och spärren är urkopplad. Betrakta ej strålen.

ADVERSEL! Usynlig laserstråling når deksel åpnes og sikkerhedslås brytes. Unngå eksponering for strålen.
RQLS0078

RQLS0025

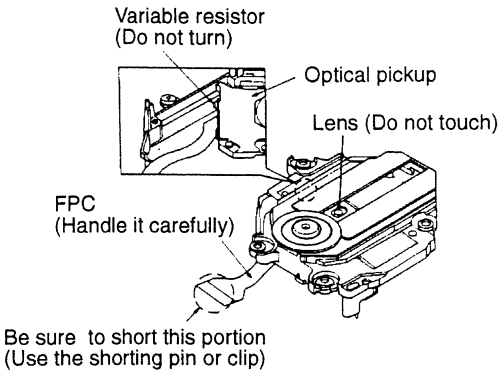
ADVARSEL: USYNLIG LASERSTRÅLING VED ÅBNING, NÅR SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION. UNDGÅ UDSÆTTELSE FOR STRÅLING.

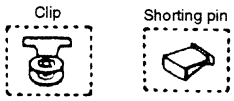
■ HANDLING PRECAUTIONS FOR TRAVERSE DECK

The laser diode in the traverse deck (optical pickup) may break down due to potential difference caused by static electricity of clothes or human body.
So, be careful of electrostatic breakdown during repair of the traverse deck (optical pickup).

• Handling of traverse deck (optical pickup)

1. Do not subject the traverse deck (optical pickup) to static electricity as it ie extremely sensitive to electrical shock.
2. To prevent the breakdown of the laser diode, an antistatic shorting pin is inserted into the flexible board (FPC board). When removing or connecting the short pin, finish the job in as short time as possible.
3. Take care not to apply excessive stress to the flexible board (FPC board).
4. Do not turn the variable resistor (laser power adjustment). It has already been adjusted.

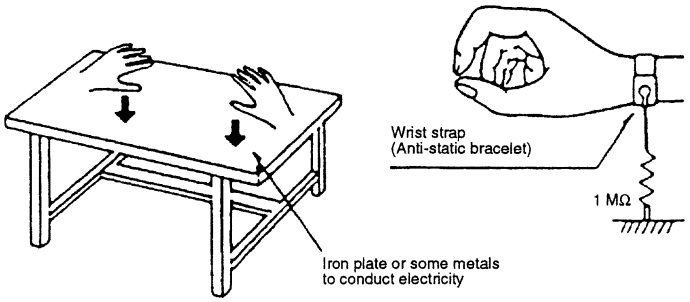




• Grounding for electrostatic breakdown prevention

1. Human body grounding
   Use the anti-static wrist strap to discharge the static electricity from your body.
2. Work table grounding
   Put a conductive material (sheet) or steel sheet on the area where the traverse deck (optical pickup) is placed, and ground the sheet.

Caution :
The static electricity of your clothes will not be grounded through the wrist strap. So, take care not to let your clothes touch the traverse deck (optical pickup).



■ CAUTION FOR AC MAINS LEAD

[For [EB] area.]
For your safety, please read the following text carefully.

This appliance is supplied with a moulded three pin mains plug for your safety and convenience.
A 5-ampere fuse is fitted in this plug.
Should the fuse need to be replaced please ensure that the replacement fuse has a rating of 5-ampere and that it is approved by ASTA or BSI to BS1362.
Check for the ASTA mark ◈ or the BSI mark ♡ on the body of the fuse.

If the plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced.
If you lose the fuse cover, the plug must not be used until a replacement cover is obtained.
A replacement fuse cover can be purchased from your local dealer.

CAUTION !
IF THE FITTED MOULDED PLUG IS UNSUITABLE FOR THE SOCKET OUTLET IN YOUR HOME THEN THE FUSE SHOULD BE REMOVED AND THE PLUG CUT OFF AND DISPOSED OFF SAFELY.
THERE IS A DANGER OF SEVERE ELECTRICAL SHOCK IF THE CUT OFF PLUG IS INSERTED INTO ANY 13-AMPERE SOCKET.

If a new plug is to be fitted, please observe the wiring code as shown below.
If in any doubt please consult a qualified electrician.

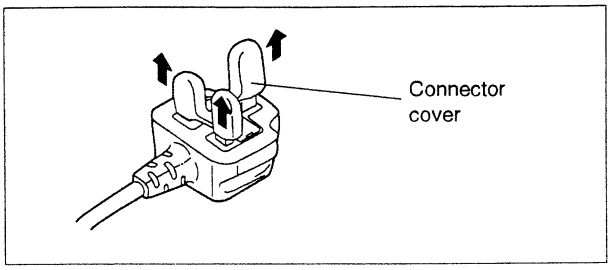
IMPORTANT
The wires in this lead are coloured in accordance with the following code:
Blue: Neutral
Brown: Live
As the colours of the wires in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured BLUE must be connected to the terminal in the plug which is marked with the letter N or coloured BLACK.

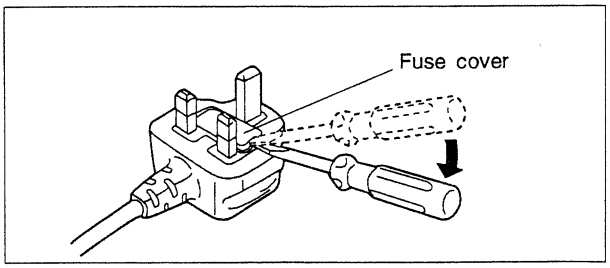
The wire which is coloured BROWN must be connected to the terminal in the plug which is marked with the letter L or coloured RED.

Under no circumstances should either or these wires be connetced to the earth terminal of the three pin plug, marked with the letter E or the Earth symbol ⏚ .

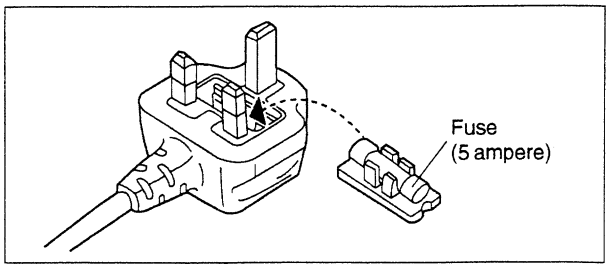
Before use
Remove the connector cover as follows.



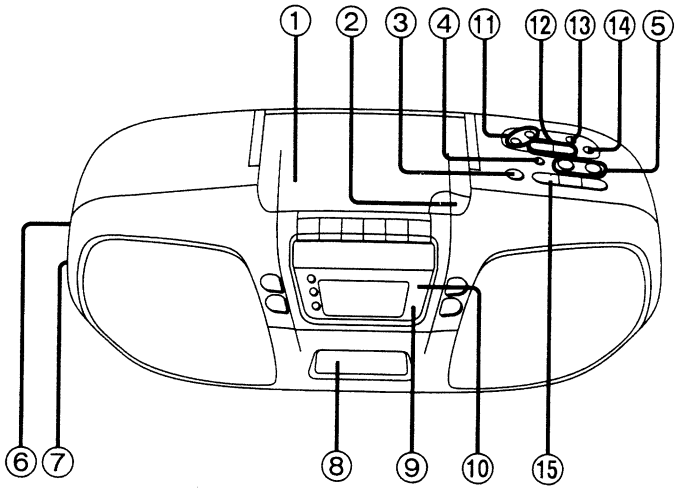
How to replace the fuse
1. Remove the fuse cover with a screwdriver.

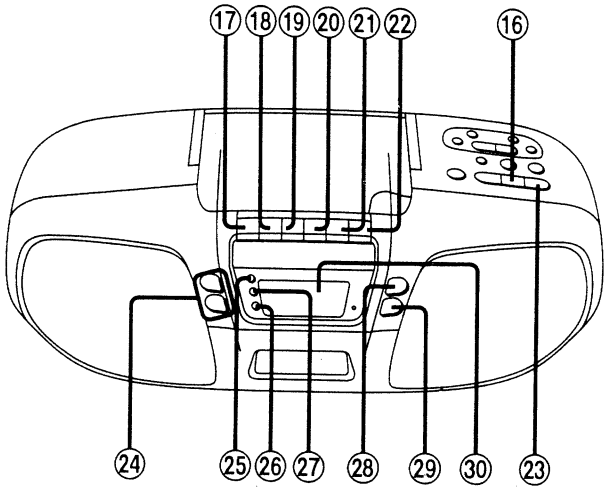


2. Replace the fuse and attach the fuse cover.



■ LOCATION OF CONTROLS





Basic Controls

① Disc lid
② Disc lid open button (▲ CD)
③ Power "STANDBY ⏻ (AC)/ON" switch
[POWER, STANDBY ⏻ (AC)/ON]
Press to switch the unit from on to standby mode or vice versa. In standby mode, the unit is still consuming a small amount of power.
④ XBS button (XBS)
⑤ Volume buttons (VOLUME)
⑥ Mixing microphone jack (MIX MIC)
⑦ Headphones jack (PHONES)
⑧ Tape lid
⑨ Power/battery, standby indicator
(POWER/BATT, STDBY ⏻)
⑩ Remote control signal sensor (SENSOR)

Tuner Controls

⑪ Tuning buttons (TUNING)
⑫ Preset tuning buttons (PRESET TUNING)
⑬ FM mode/beat proof button
(FM MODE/BP)
⑭ Memory button (MEMORY)
⑮ Tuner/band button (TUNER/BAND)

Cassette deck controls

⑯ Tape button (TAPE)
⑰ Pause button (▮▮ PAUSE)
⑱ Stop/eject button (■ / ▲ STOP/EJECT)
⑲ Fast forward/cue button (◀◀ FF/CUE)
⑳ Rewind/review button (▶▶ REW/REV)
㉑ Playback button (◀ PLAY)
㉒ Recording button (● REC)

CD controls

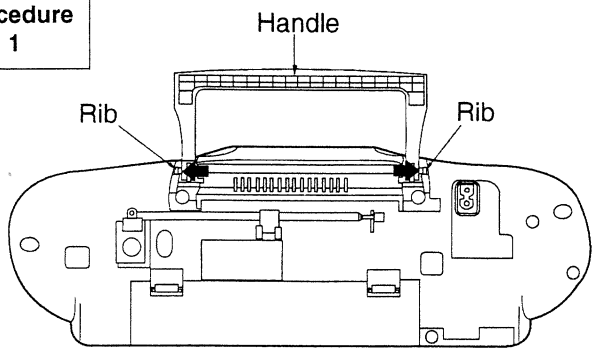
㉓ CD button (CD)
㉔ Skip/search buttons (▶▶| , |◀◀)
㉕ Memory button (MEMORY)
㉖ Repeat button (REPEAT)
㉗ Easy CD recording button
(EASY CD REC)
㉘ Play/pause button (▶ / ▮▮)
㉙ Stop/clear button (■ /CLEAR)
㉚ Display panel

■ DISASSEMBLY INSTRUCTIONS

Warning : This product uses a laser diode. Refer to caution statements on page 2.

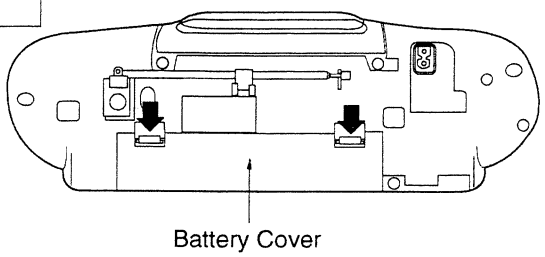
ACHTUNG : • Die lasereinheit nicht zerlegen.
• Die lasereinheit darf nur gegen eine vom hersteller spezifizierte einheit ausgetauscht werden.

Ref. No. 1	Removal of the Handle
Procedure 1	

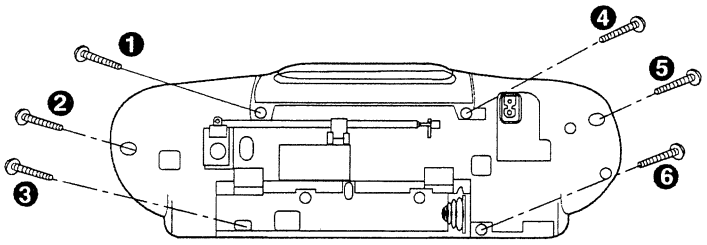


1. Release 2 ribs.
2. Pull out the handle.

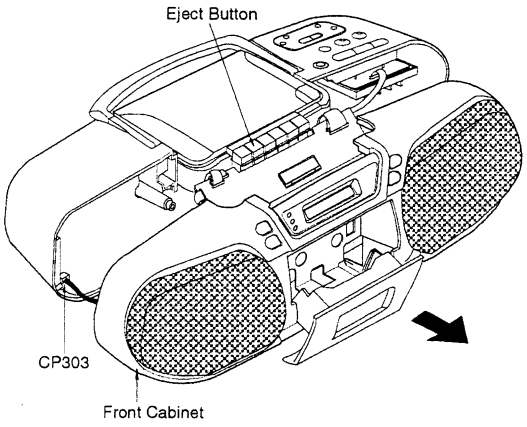
Ref. No. 2	Removal of the Front Cabinet
Procedure 2	



1. Remove the battery cover.

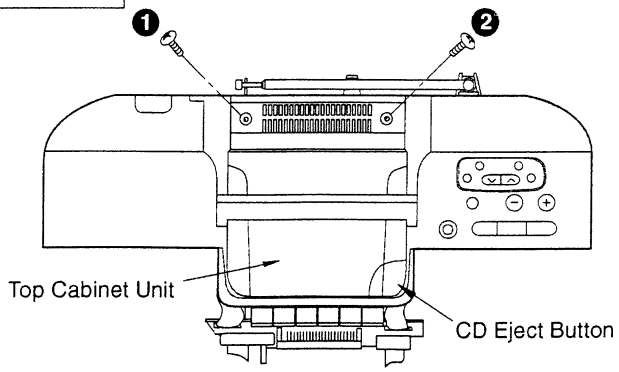


2. Remove 6 screws. (❶ ~ ❻)

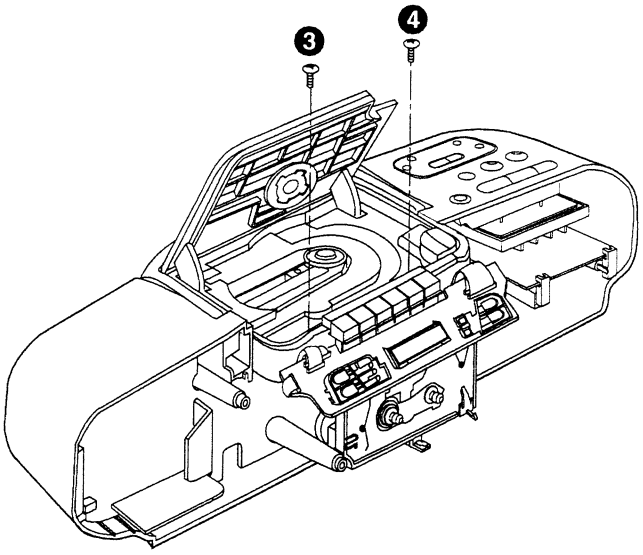


3. Press the eject button.
4. Remove the front cabinet in the direction of arrow.
5. Remove 1 connector. (CP303)

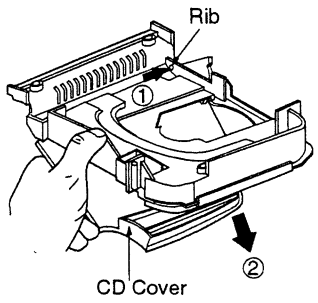
Ref. No. 3	Removal of the Top Cabinet Unit
Procedure 2 → 3	

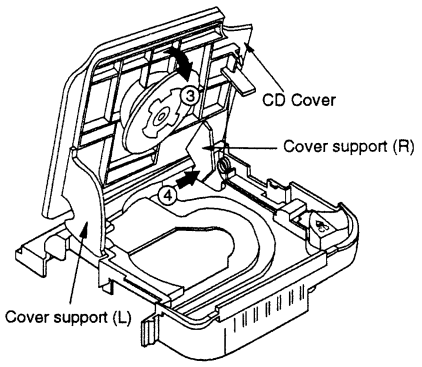


1. Remove 2 screws. (❶ & ❷)
2. Press the CD eject button.
3. Remove 2 screws. (❸ & ❹)
4. Remove the Top Cabinet Unit.



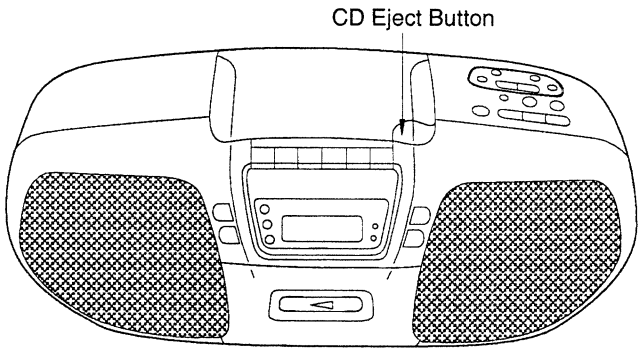
Ref. No. 4	Removal of the CD Cover
Procedure 2 → 3 → 4	

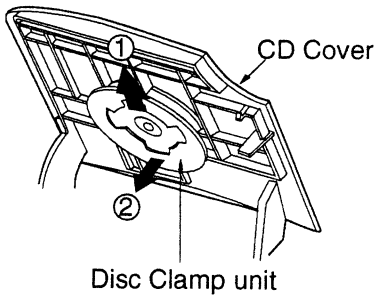




1. Hold the CD cover in half-open position.
2. Release the rib in direction of arrow ① .
3. Pull out cover support (L) in the direction of arrow ② .
4. Hold down the CD cover in the direction of arrow ③ .(Half-open)
5. Release the cover support (R) in the direction of arrow ④ .
6. Pull out the CD cover.

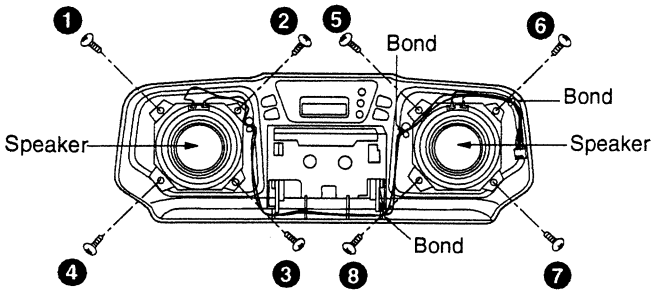
Ref. No. 5	Removal of the Disc Clamp Unit
Procedure 5	





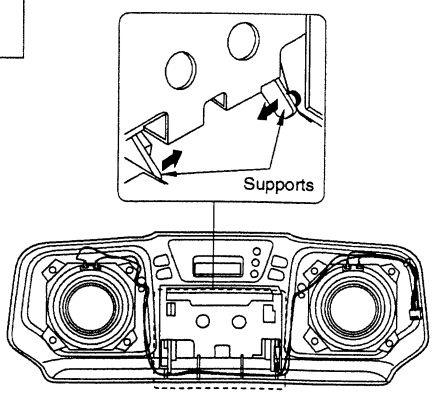
1. Press the CD eject button.
2. Remove the disc clamp unit in the direction of arrow ① follow by ② .

Ref. No. 6	Removal of the Speakers
Procedure 2 → 6	



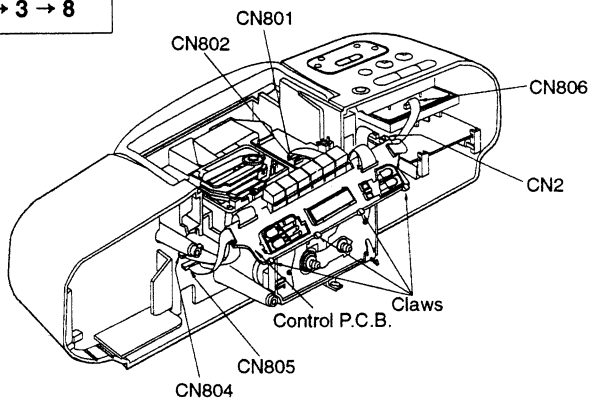
1. Remove 8 screws. (❶ ~ ❽)
2. Remove black bonds.

Ref. No. 7	Removal of the Cassette Compartment
Procedure 2 → 7	



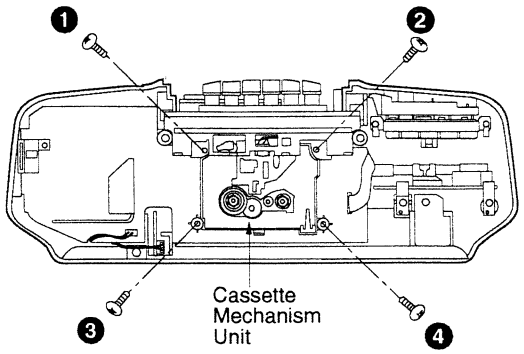
• Release the supports and pull out the compartment.

Ref. No. 8	Removal of the Control P.C.B.
Procedure 2 → 3 → 8	



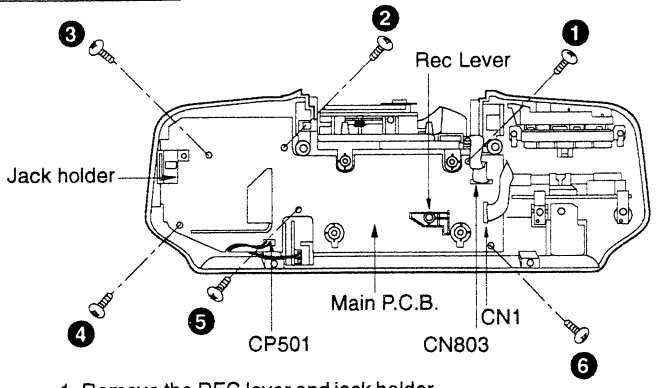
1. Remove 6 connectors. (CN2, CN801, CN802,CN804, CN805 & CN806)
2. Release 4 claws.

Ref. No. 9	Removal of the Mechanism Unit
Procedure 2 → 3 → 8 → 9	

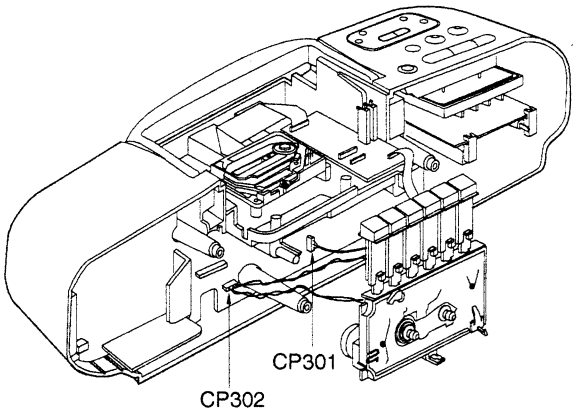


1. Remove 4 screws. (❶ ~ ❹)

Ref. No. 10	Removal of the Main P.C.B.
Procedure 2 → 3 → 8 → 9 → 10	

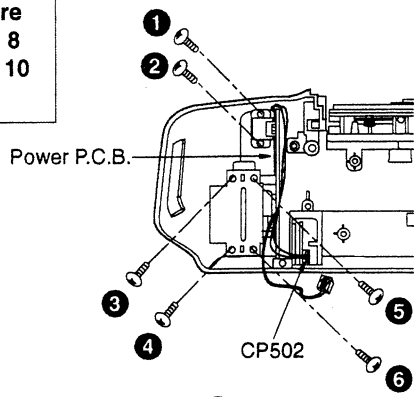


1. Remove the REC lever and jack holder.
2. Remove 6 screws. (❶ ~ ❻)
3. Remove 3 connectors. (CP501, CN1 & CN803)



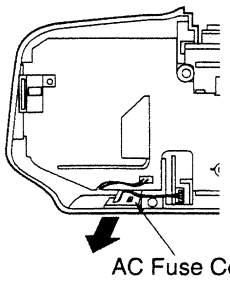
2. Remove 2 connectors. (CP301 & CP302)

Ref. No. 11	Removal of the Power Supply P.C.B.
Procedure 2 → 3 → 8 → 9 → 10 → 11	



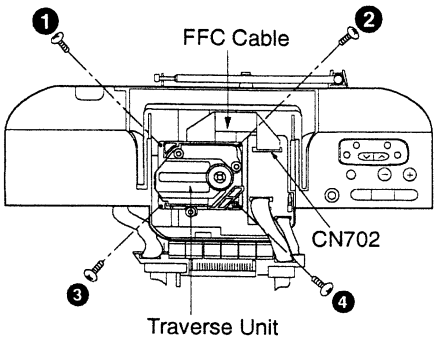
1. Remove 6 screws. (❶ ~ ❻)
2. Remove 1 connector. (CP502)

Ref. No. 12	Removal of the AC Fuse Cover
Procedure 2 → 12	



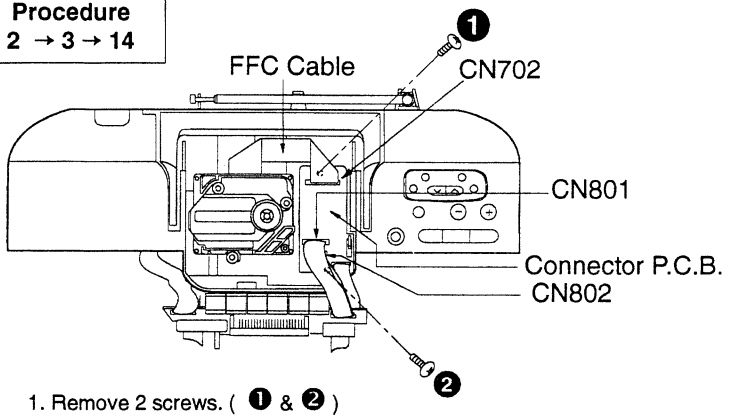
• Pull out the AC Fuse Cover in the direction of arrow.

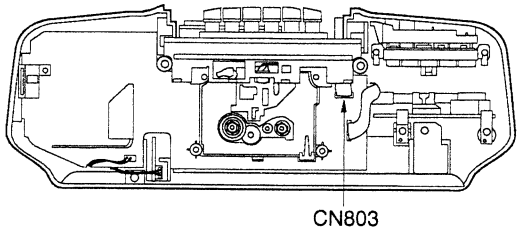
Ref. No. 13	Removal of the Traverse Unit
Procedure 2 → 3 → 13	



1. Remove 4 screws (❶ ~ ❹).
2. Remove FFC cable from the connector CN702 (Connector P.C.B.).

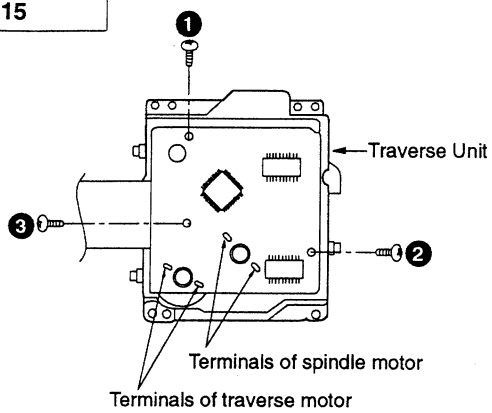
Ref. No. 14	Removal of the Connector P.C.B.
Procedure 2 → 3 → 14	





1. Remove 2 screws. (❶ & ❷)
2. Remove FFC cable from the connector CN702 (Connector P.C.B.).
3. Remove 3 connectors. (CN801, CN802, CN803)

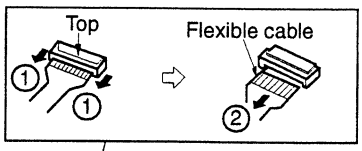
Ref. No. 15	Removal of the Servo P.C.B.
Procedure 2 → 3 → 13 → 15	

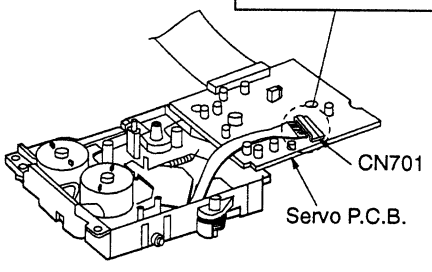


1. Remove 3 screws. (❶ ~ ❸)
2. Desolder 2 terminals of spindle motor.
3. Desolder 2 terminals of traverse motor.
4. Remove the flexible cable from CN701.

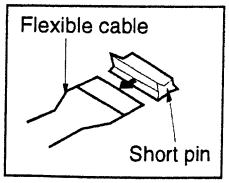
• Removal of the flexible cable

Push the top of the connector in the direction of the arrow ① , and then pull out the flexible cable in the direction of the arrow ② .



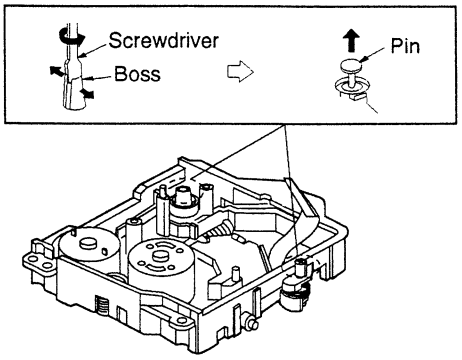


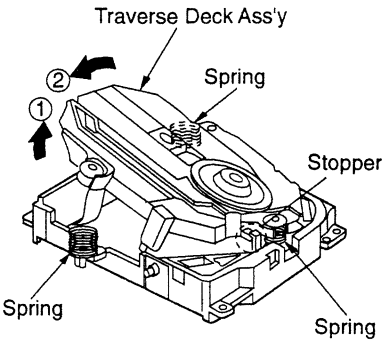
Note :
Insert a short pin into the flexible cable for traverse unit.



Ref. No. 16	Removal of the Traverse Deck Ass'y

Procedure
2 → 3 → 13 →15 →16

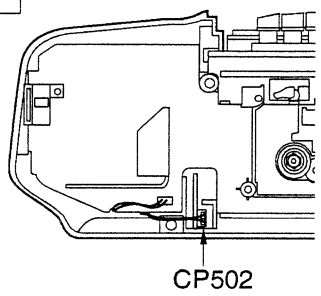


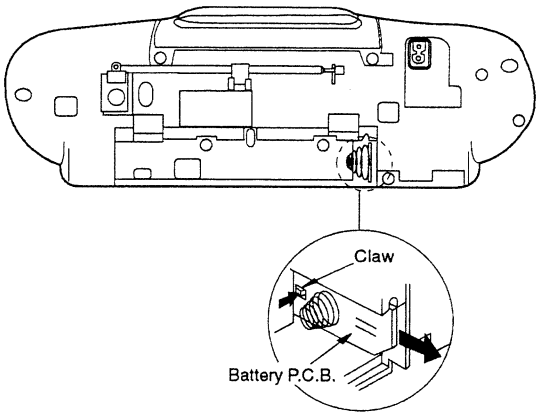


1. Widen 2 bosses by using a flat tip screwdriver and remove 2 pins
2. Remove the Traverse Deck Ass'y in direction of arrow ① follow by ② .

Ref. No. 17	Removal of the Battery P.C.B.

Procedure
2 → 17

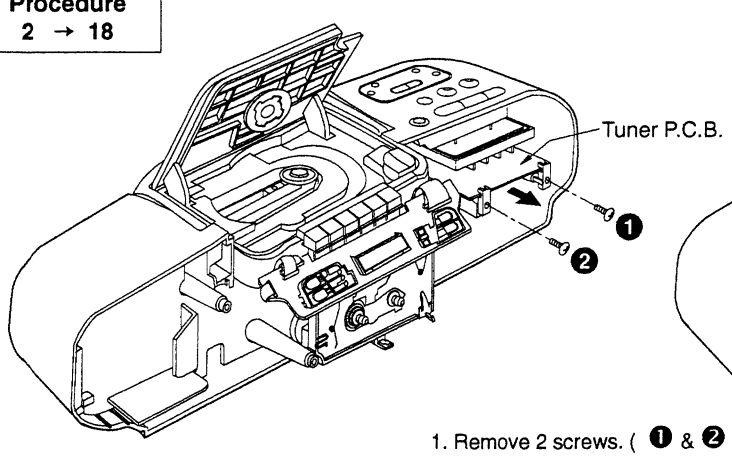


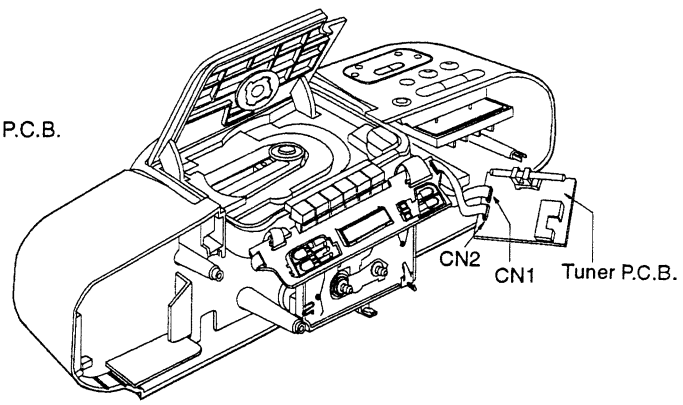


1. Remove 1 connector. (CP502)
2. Release 1 claw.
3. Pull out the battery P.C.B.

Ref. No. 18	Removal of the Tuner P.C.B.

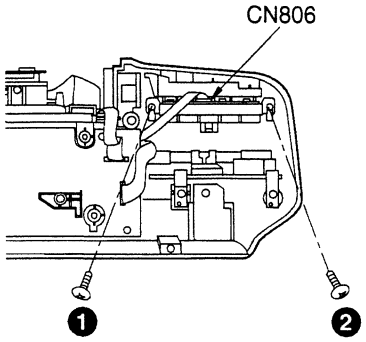
Procedure
2 → 18



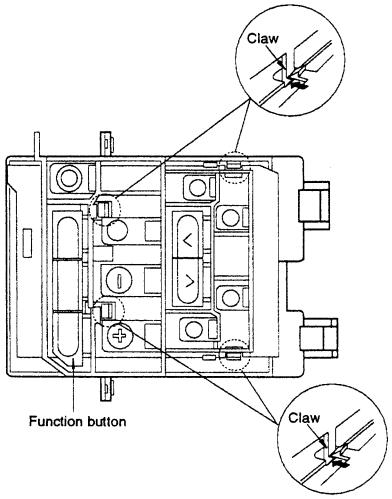


1. Remove 2 screws. (❶ & ❷)
2. Pull out the Tuner P.C.B.
3. Remove 2 connectors (CN1 & CN2)

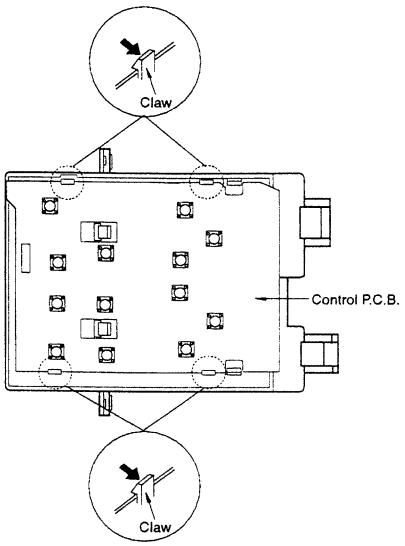
Ref. No. 19	Removal of the Operation P.C.B.
Procedure 2 → 19	



1. Remove 2 screws. (❶ & ❷)
2. Remove 1 connector. (CN806)

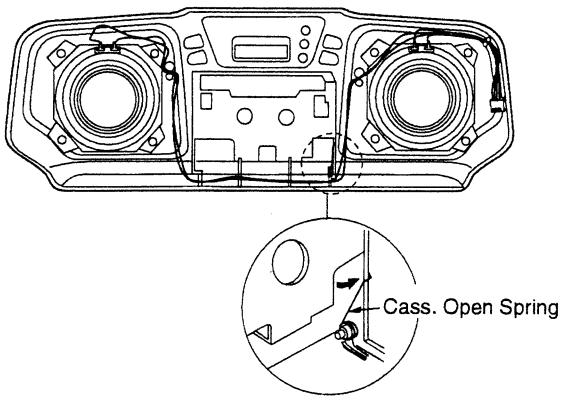


3. Release 4 claws and then remove the function button.

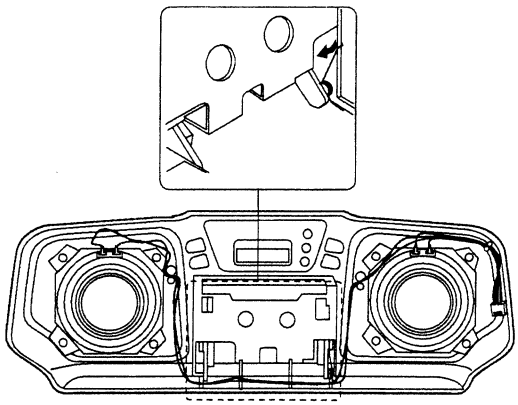


4. Release 4 claws and then remove the operation P.C.B.

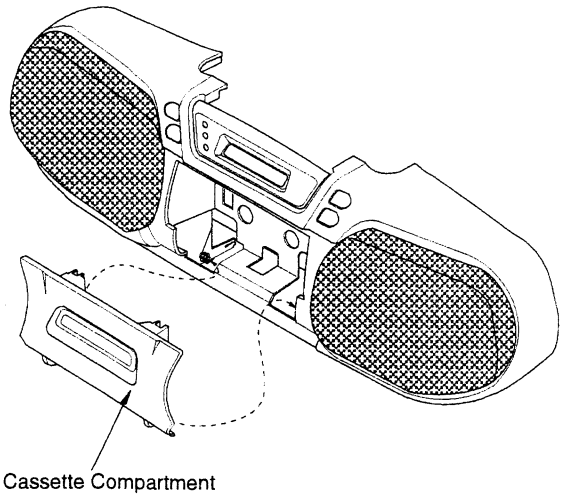
■ INSTALLING CASSETTE COMPARTMENT



1. Install the cass. open spring as shown in above diagram.

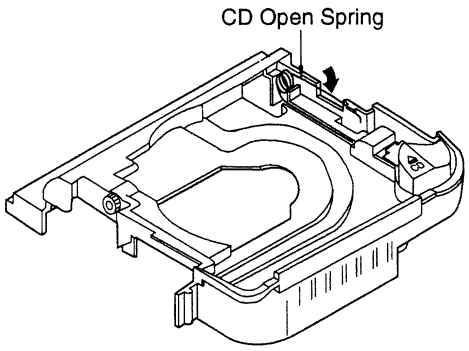


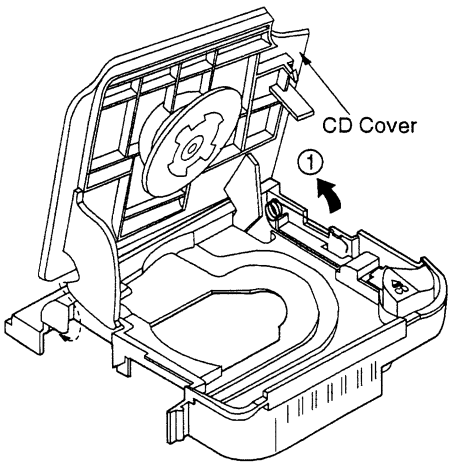
3. Release the spring.



2. Fix the cassette compartment to front cabinet.

■ INSTALLING CD COVER



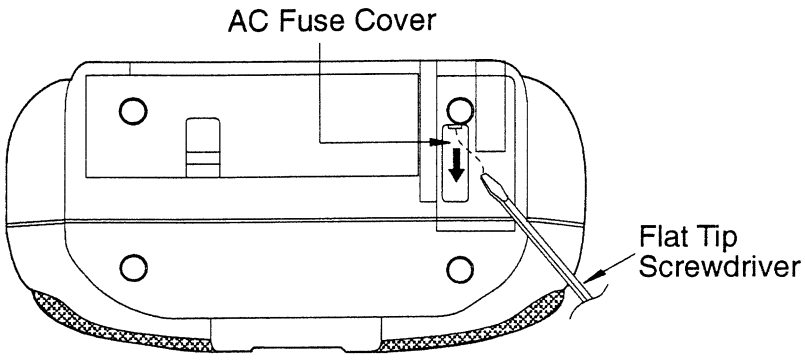


1. Install the CD open spring as shown in above diagram

2. Install the CD cover onto the top cabinet.
   Note : When installing the CD cover, make sure the CD cover is in half open position.
3. Release the spring in the direction of arrow ① .

■ FUSE REPLACEMENT

1. Open the AC fuse cover in the direction of arrow using a flat tip screwdriver.
2. Replace the fuse inside.



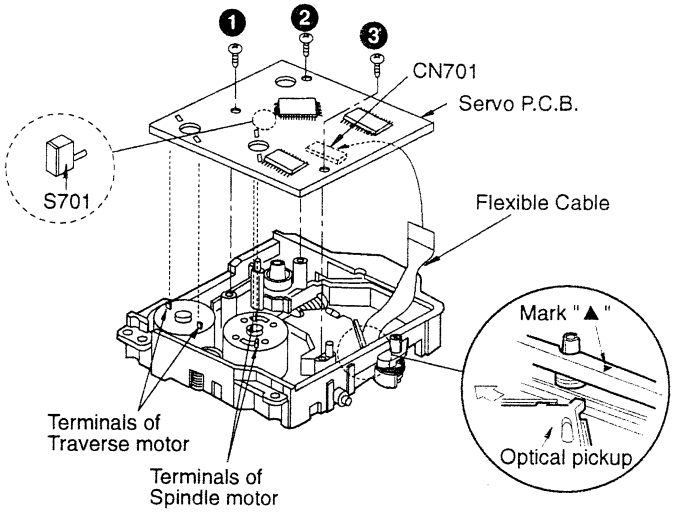
Bottom of the unit

CAUTION
After fuse replacement, be sure to restore the fuse cover.

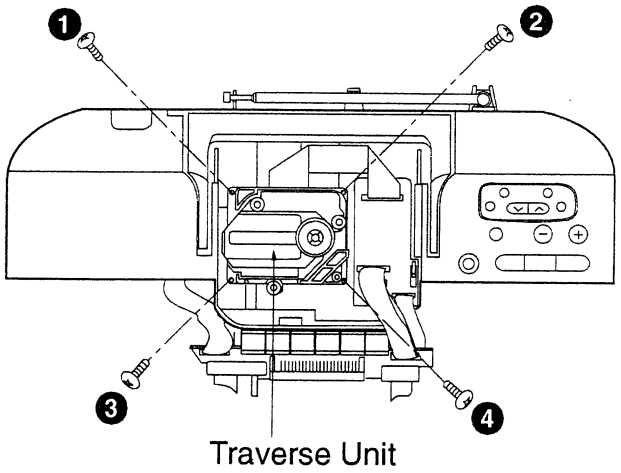
■ INSTALLING SERVO P.C.B.

1. Before installing the servo P.C.B., move the optical pickup toward the outer edge from the mark "▲". (Otherwise, the rest switch (S701) mounted on the servo P.C.B may be damaged.)
2. Connect the flexible cable to the connector (CN701).
3. Install the servo P.C.B. in the traverse deck ass'y with the 3 screws (❶ ~ ❸).
4. Solder the 2 terminals of the traverse motor and the 2 terminals of the spindle motor.

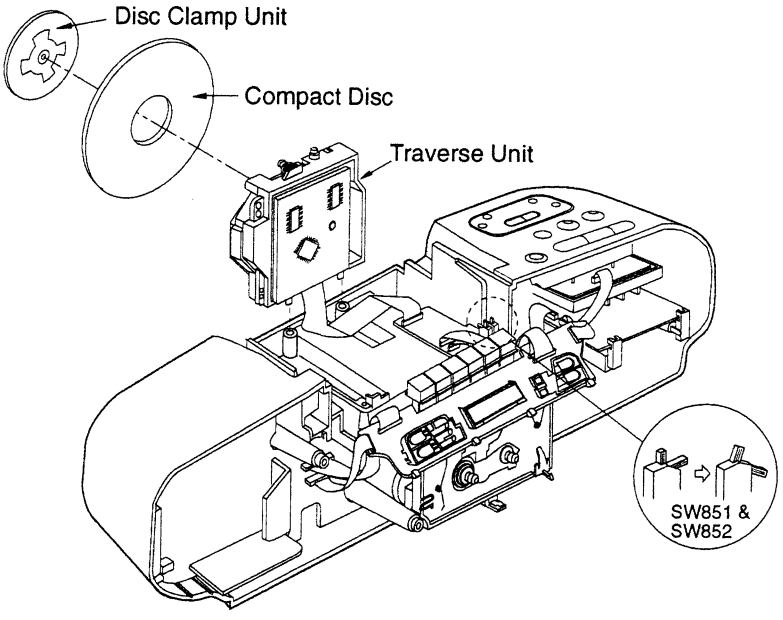
Note : Connect the flexible cable to the connector (CN701) firmly.
Tighten the screws before soldering the terminals.



■ HOW TO CHECK THE TRAVERSE UNIT



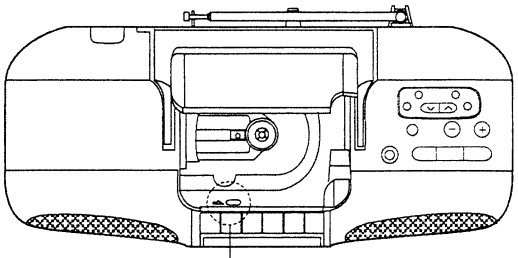
1. Remove the top cabinet unit. (Refer to disassembly instructions, Ref No. 3)
2. Remove 4 screws. (❶ ~ ❹)



3. Set up the traverse unit as shown in diagram.
4. Install the compact disc and disc clamp unit.

Note : Before perform checking, make sure the switch SW851 and SW852 are switched to "ON" position (as shown in diagram).

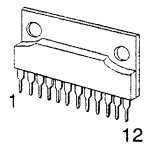
■ WHAT TO DO WHEN THE TAPE IS ENTANGLED



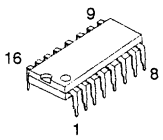
When the tape is caught in the pitch roller, etc. Release the tape by turning the flywheel on the motor with the screwdriver in the direction of arrow.

■ TERMINAL GUIDE OF ICs, TRANSISTORS & DIODES

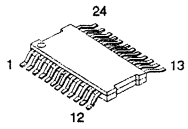
AN7135



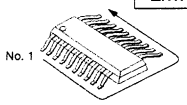
AN7317



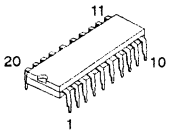
AN8389SE1



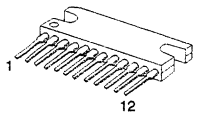
AN8802SCE1V	32 Pin
LA1831MSATEL	24 Pin
LM7001M-TE-L	20 Pin



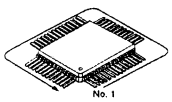
M62414SP



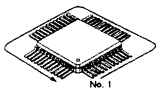
BA3936



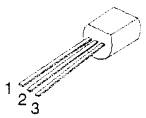
M38223M4052
80 Pin



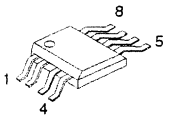
MN66271RA
80 Pin



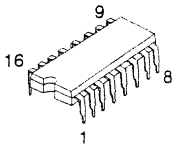
S81250PG-T
S-806D-Z



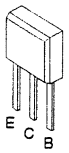
TA7358FMATEL



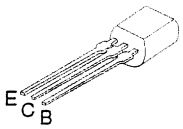
TC4052BP



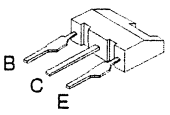
2SA1175FTA
BA1A4MTA
BA1L4ZTA
BN1A4MTA
BN1A4ZTA



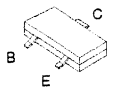
2SC1684QTA
2SC1684RTA
2SC1684STA



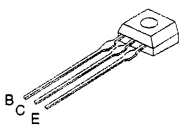
2SA1680TPE6



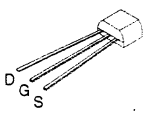
2SB709S



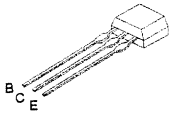
2SC2785FTA
2SC2787FL1TA
2SC2787LTA
2SD1020HTA
BN1L3NTA



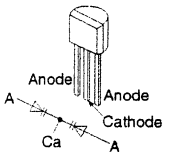
2SJ40CDTA



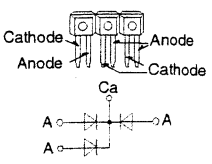
2SC1740SRTA



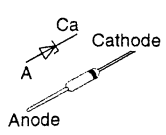
KV1360NT



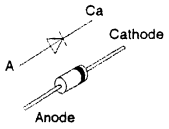
KV1581A3



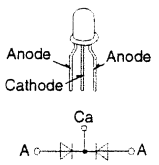
RVDMTZ16BTA
RVDMTZ5R1CTA
RVDMTZ5R6BTA
RVDMTZ6R8BTA
RVDMTZ7R5BTA



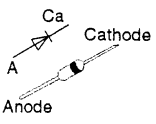
1N5402BM21



SPR54MVW229F



RVD1SS133TA



NOTES:

< For MAIN & POWER SUPPLY CIRCUIT >

- SW301-1 ~ SW301-6 : Playback/Record Select Switch. (P...PLAYBACK, R...RECORD)
- SW501 : AC/Battery Select Switch.(JK501)
- SW601 : Cassette Mechanism Motor Switch.

< For CONTROL CIRCUIT >

- SW801 : Easy CD recording Switch. (EASY CD REC)
- SW802 : CD Memory Switch. (MEMORY)
- SW803 : CD Reverse Skip Switch. (⏮)
- SW804 : CD Skip Switch. (⏭)
- SW805 : CD Repeat Switch. (REPEAT)
- SW806 : CD Stop/Clear Switch. (■ / CLEAR)
- SW807 : CD Play/Pause Switch. (▶ / ⏸)
- SW808 : Power Switch. [POWER, STANDBY ⏻ (AC)/ON]
- SW809 : Volume Tuning Down Switch. (VOLUME, —)
- SW810 : Volume Tuning Up Switch. (VOLUME, +)
- SW811 : Preset Tuning Down Switch. (PRESET TUNING , ﹀)
- SW812 : Preset Tuning Up Switch. (PRESET TUNING, ﹀)
- SW813 : Manual Tuning Down Switch. (TUNING, —)
- SW814 : Manual Tuning Up Switch. (TUNING, +)
- SW815 : Tape Switch. (TAPE)
- SW816 : Tuner/Band Switch. (TUNER/BAND)
- SW817 : CD Switch. (CD)
- SW818 : XBS Switch. (XBS)
- SW819 : Tuner Memory Switch. (MEMORY)
- SW820 : FM Mode/Beatproof Switch. (FM MODE/BP)
- SW851 : CD Open/Close Switch. (⏏ CD)
- SW852 : CD Loading Switch. (⏏ CD)

... MAIN SIGNAL LINE
... CD SIGNAL LINE
... FM OSC SIGNAL LINE
... FM SIGNAL LINE
... +B LINE
... MIC SIGNAL LINE
... RECORDING SIGNAL LINE
... AM(MW/LW) SIGNAL LINE
... TAPE PLAYBACK SIGNAL LINE

< For SERVO CIRCUIT >

- S701 : Rest Switch.

< GENERAL >

- Battery Current Consumption:

Vol. min.....	186mA (FM)	Vol. max.....	820mA (FM)
	181mA [AM(MW/LW)]		670mA [AM(MW/LW)]
	220mA (TAPE PLAYBACK)		1230mA (TAPE PLAYBACK)
	350mA (CD)		890mA (TAPE RECORDING)
			1930mA (CD)

(Measurement condition:
Radio : FM 60 dB, 30%mod
AM(MW/LW) 74 dB/m, 30%mod
Tape : 315 Hz, 0dB
CD : 1kHz, 0dB)

- The voltage value and waveforms are the reference voltage of this unit measured by DC electronic voltmeter (high impedance) and oscilloscope on the basis of chassis.
Accordingly, there may arise some error in voltage values and waveforms depending upon the internal impedance of the tester or the measuring unit.

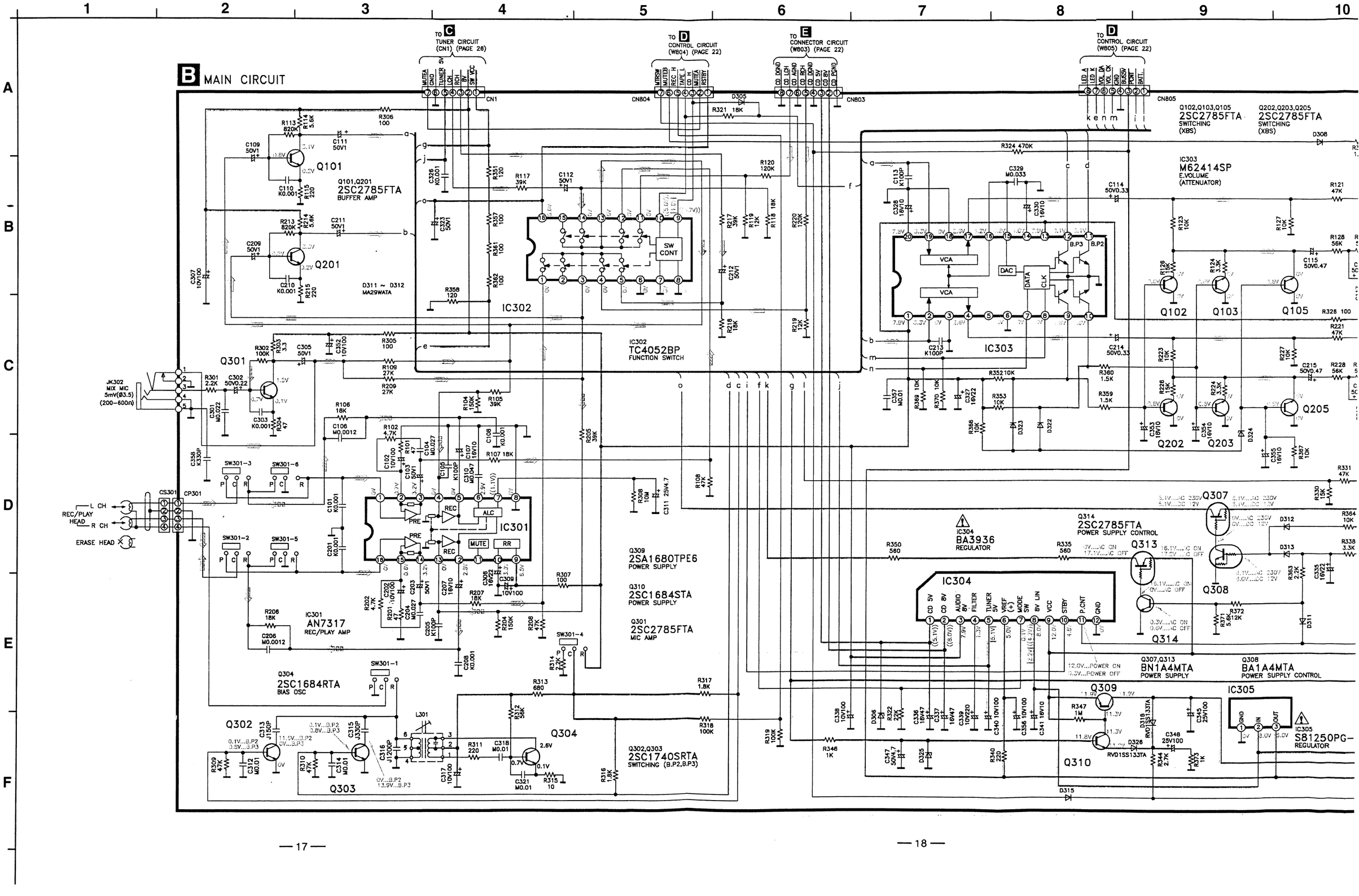
No mark ... Tape Playback (( )) ... CD < > ... FM
( ) ... AM(MW/LW) << >> ... RECORD

CAUTION !
IC and LSI are sensitive to static electricity.
Secondary trouble can be prevented by taking care during repair.
- Cover the parts boxes made of plastics with aluminum foil.
- Ground the soldering iron.
- Put a conductive mat on the work table.
- Do not touch the pins of IC or LSI with fingers directly.

- Important safety notice :
Components identified by ⚠ mark have special characteristics important for safety.
When replacing any of these components, use only manufacturer's specified parts.

- **This schematic diagram may be modified at anytime with the development of new technology.**

■ SCHEMATIC DIAGRAM



RX-DS25

5 6 7 8 9 10 11 12 13 14

TO D CONTROL CIRCUIT (W804) (PAGE 22)

TO E CONNECTOR CIRCUIT (W803) (PAGE 22)

TO D CONTROL CIRCUIT (W805) (PAGE 22)

CN804 CN803 CN805

Q102,Q103,Q105 2SC2785FTA SWITCHING (XBS)

Q202,Q203,Q205 2SC2785FTA SWITCHING (XBS)

Q104,Q204 2SC2785FTA BUFFER AMP

Q108,Q208 2SC1684QTA SWITCHING

IC303 M62414SP E.VOLUME (ATTENUATOR)

IC306 AN7135 POWER AMP

IC302 TC4052BP FUNCTION SWITCH

IC304 BA3936 REGULATOR

Q314 2SC2785FTA POWER SUPPLY CONTROL

Q307,Q313 BN1A4MTA POWER SUPPLY

Q308 BA1A4MTA POWER SUPPLY CONTROL

Q309 2SA1680TPE6 POWER SUPPLY

Q310 2SC1684STA POWER SUPPLY

Q301 2SC2785FTA MIC AMP

Q302,Q303 2SC1740SRTA SWITCHING (B.P2,B.P3)

IC305 S81250PG-T REGULATOR

Q305,Q311 BN1A4MTA POWER ON/OFF DET.

F POWER SUPPLY CIRCUIT

(Lch) PM DYNAMIC SPEAKER 10cm(4"),2.7Ω (WOOFER)

(Rch) PM DYNAMIC SPEAKER 10cm(4"),2.7Ω (WOOFER)

JK301 HEADPHONES ⌀ 3.5, 32Ω

JK501 AC IN 230V~240V 50Hz

BATTERY 8 R20P/LR20 (UM-1) BATTERIES 12V

BACK-UP BATTERY 4 FOR COMPUTER R6P/LR6 BATTERIES 6V

MOTOR

SW501 MOTOR SWITCH

D501~D504 1N5402BM21

D321 RVDISS133TA

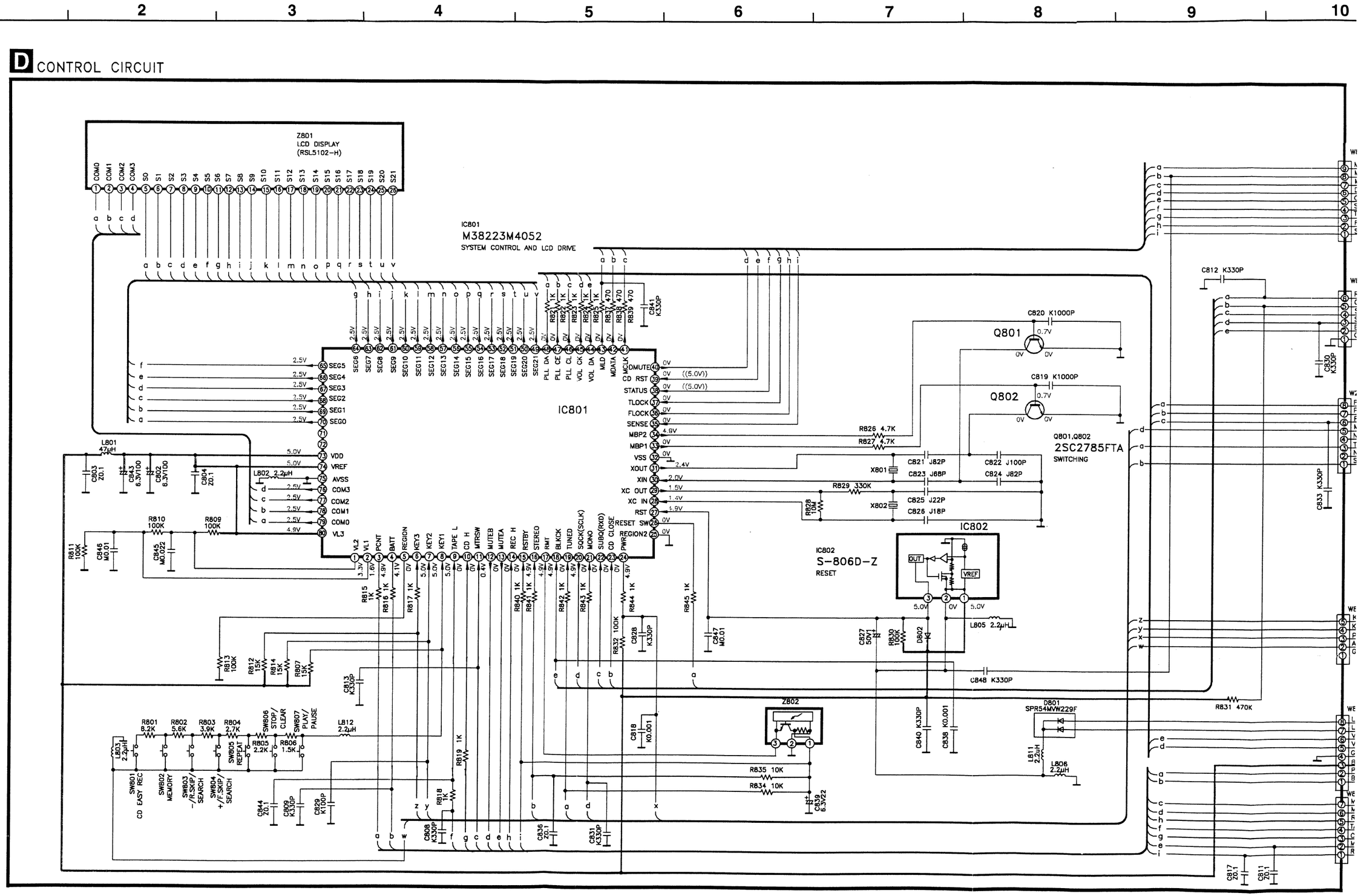
D307 RVDMTZ3R6BTA

D1 RVD1SS133TA

RX-DS25

■ SCHEMATIC DIAGRAM

D CONTROL CIRCUIT



5 6 7 8 9 10 11 12 13 14

E CONNECTOR CIRCUIT

G OPERATION CIRCUIT

IC801 :3M4052 ONTROL AND LCD DRIVE

IC802 S-806D-Z RESET

Q801,Q802 2SC2785FTA SWITCHING

W801 MLD MDATA MCLK DMUTE CD RST STATUS TLOCK FLOCK SENSE

W802 REST SW CLOSE SW SUBQ SQCK BLKCK GND

W2 PLL DA PLL CE PLL CL MONO NC TUNED NC STEREO — TO C TUNER CIRCUIT (CN2) (PAGE 26)

W803 CD DGND CD LCH CD AGND CD RCH CD DGND CD 5V CD 8V CD PGND — TO B MAIN CIRCUIT (CN803) (PAGE 18)

W804 MTRSW MUTEB REC H TAPE L CD H MUTEA RSTBY — TO B MAIN CIRCUIT (CN804) (PAGE 18)

W805 LED A LED K VOL DA VOL CK GND BUS5V P CONT BATT — TO B MAIN CIRCUIT (CN805) (PAGE 18)

W806 KEY3 KEY2 POWER AVSS GND

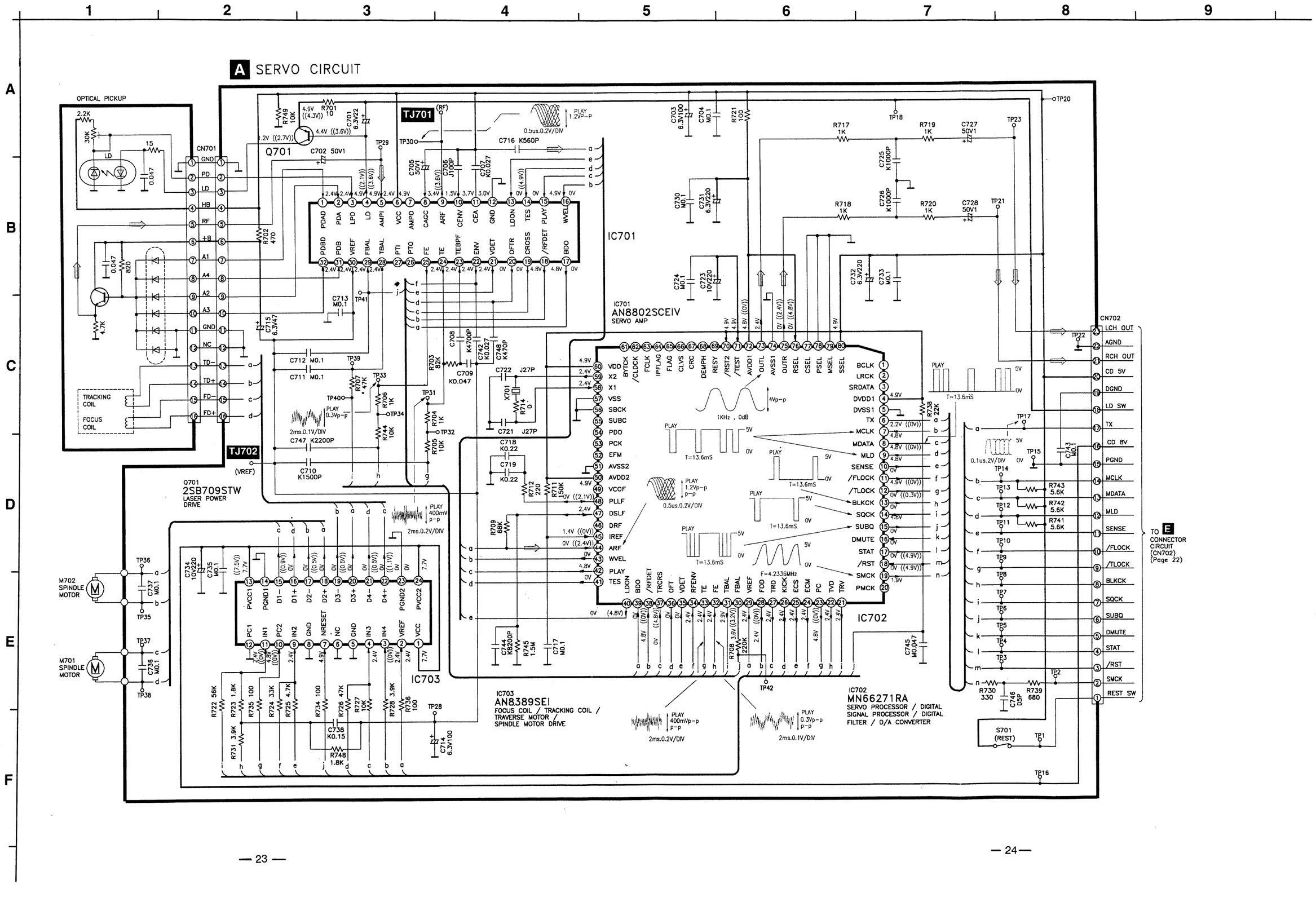
CN801 CN802 CN806

CN702 REST SW SMCK CD RST STAT DMUTE SUBQ SQCK BLKCK TLOCK FLOCK SENSE MLD MDATA MCLK CD PGND CD 8V TX LD SW CD DGND CD 5V CD RCH CD AGND CD LCH — TO A SERVO CIRCUIT (CN702) (PAGE 24)

SW851 CD CLOSE/ SW852 CD LOADING SW808 POWER

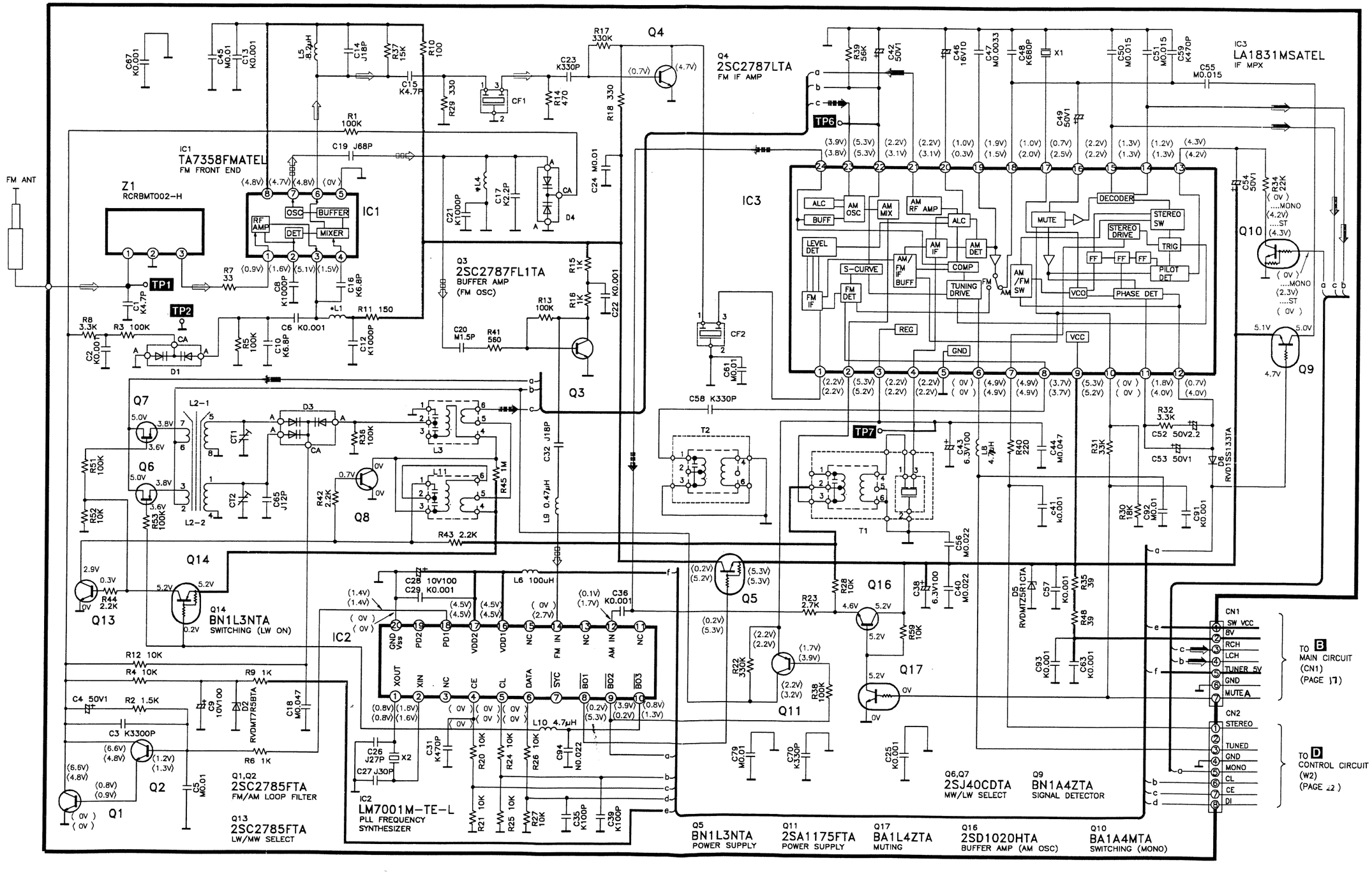
SW809 VOL DOWN SW810 VOL UP SW811 M.DOWN SW812 M.UP SW813 F.DOWN SW814 F.UP SW815 TAPE SW816 TUNER/ BAND SW817 SW818 XBS SW819 TU.MEMORY SW820 FM MODE/ BP

■ SCHEMATIC DIAGRAM



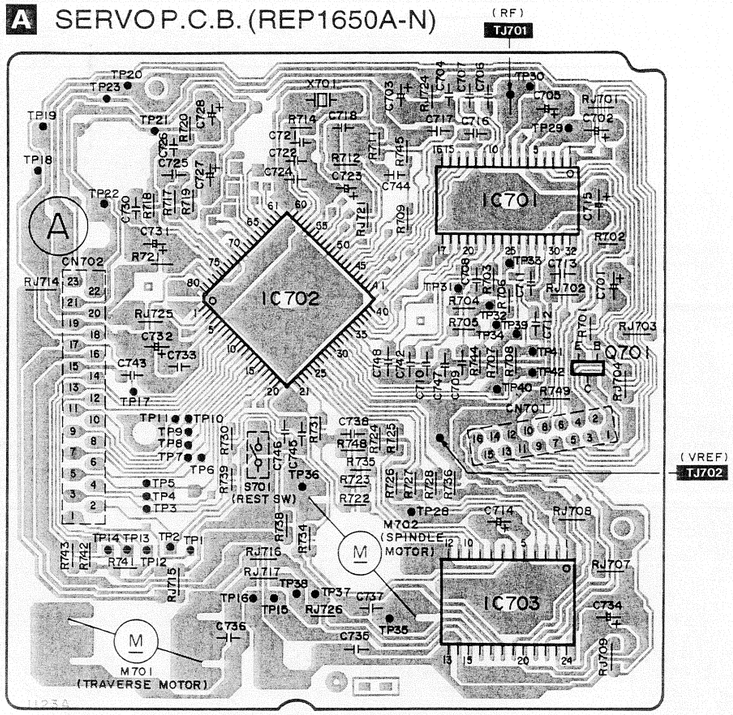
10 11 12 13 14 15 16 17 18

C TUNER CIRCUIT

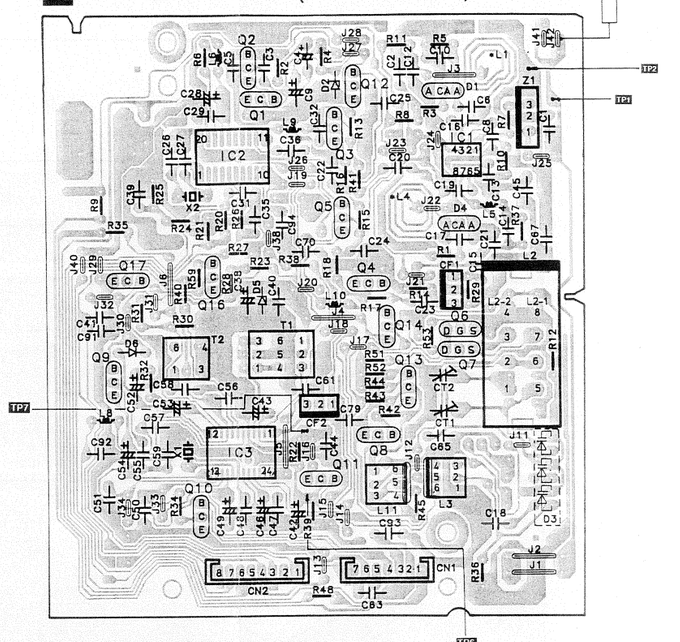


■ PRINTED CIRCUIT BOARD

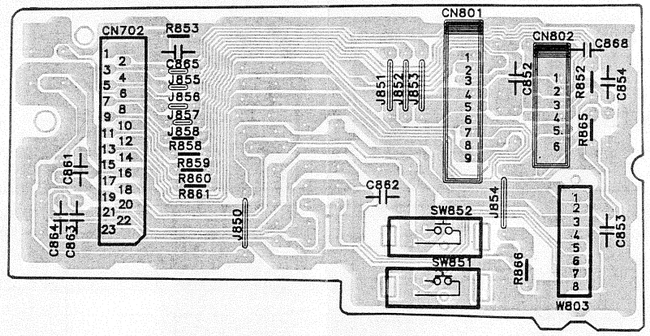
A SERVO P.C.B. (REP1650A-N)



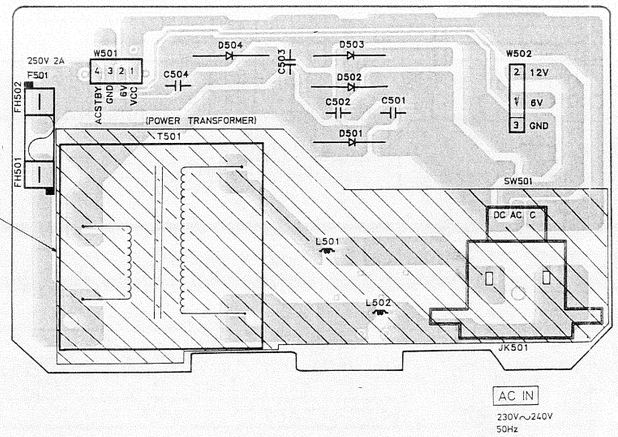
C TUNER P.C.B. (REPX0069A)



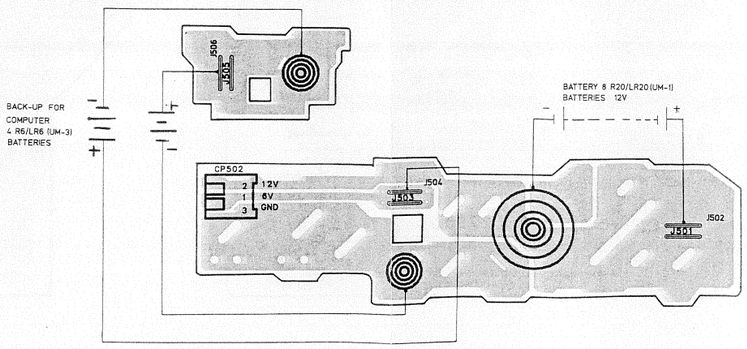
E CONNECTOR P.C.B. (REP1830A)



F POWER P.C.B. (REP1790G)

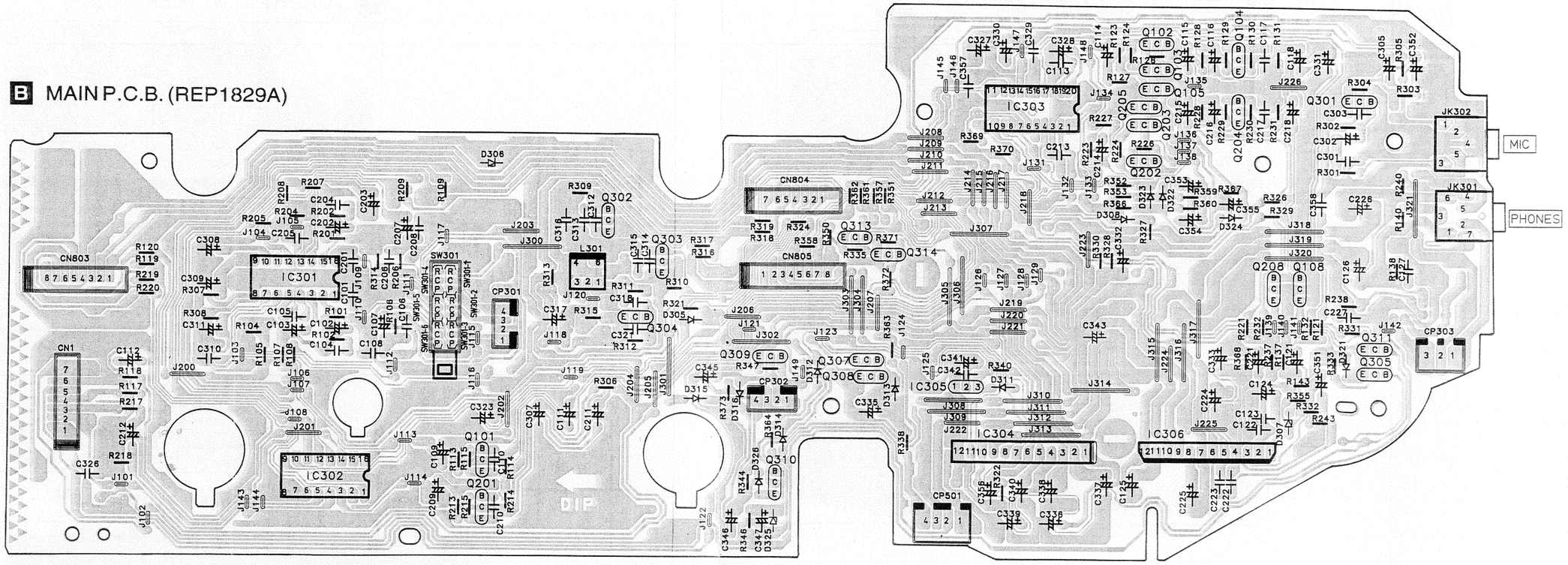


CAUTION
RISK OF ELECTRIC SHOCK
AC voltage line. Please do not touch this portion.

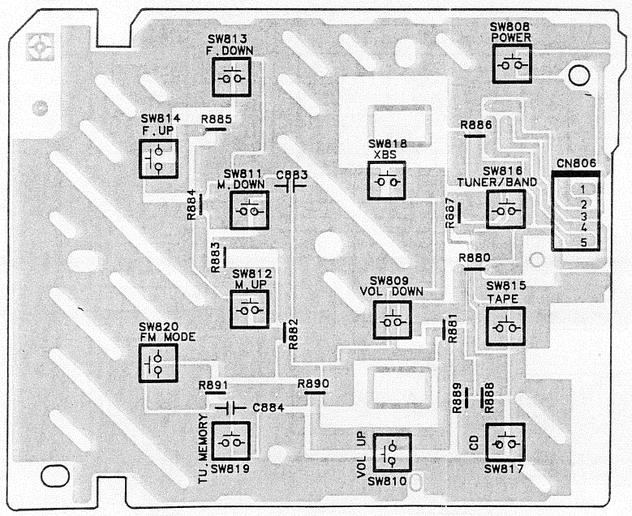


10 11 12 13 14 15 16 17 18

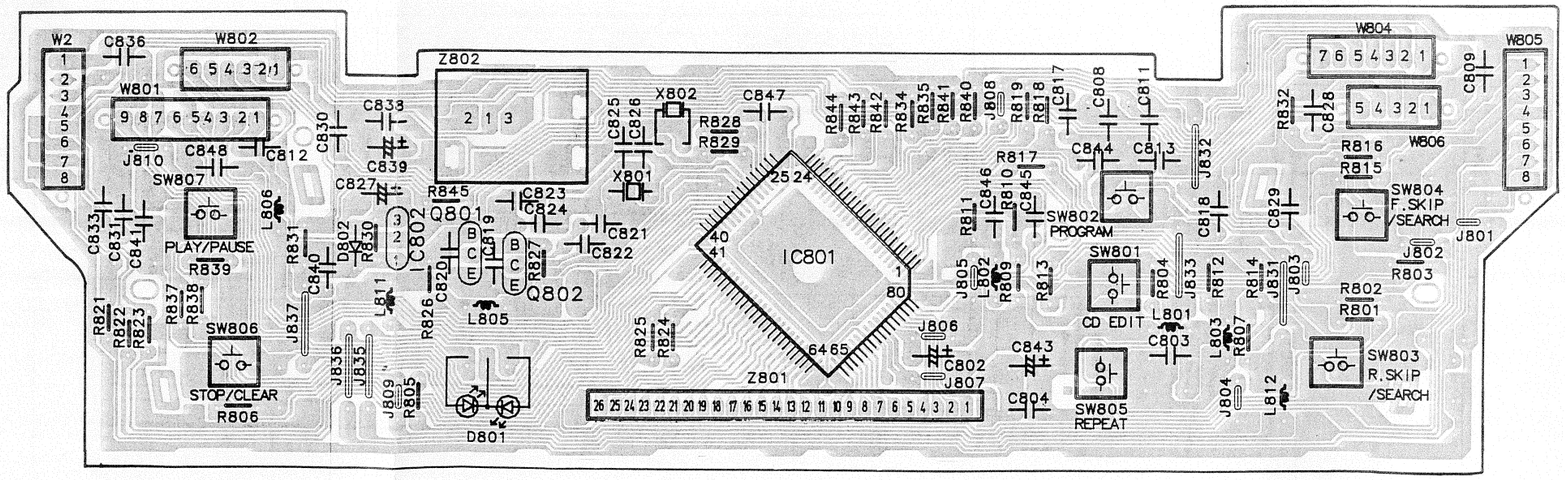
B MAIN P.C.B. (REP1829A)



G OPERATION P.C.B. (REP1830A)



D CONTROL P.C.B. (REP1830A)



■ TERMINAL FUNCTION OF IC'S

• IC702 (MN66271RA)

Pin No.	Mark	I/O	Function
1	BCLK	O	Serial bit clock terminal (Not used, open)
2	LRCK	O	L/R discriminating signal (Not used, open)
3	SRDATA	O	Serial data (Not used, open)
4	DVDD1	I	Power supply (digital circuit) terminal
5	DVSS1	—	GND (digital circuit) terminal
6	TX	O	Digital audio interface signal
7	MCLK	I	Microprocessor command clock signal
8	MDATA	I	Microprocessor command data signal
9	MLD	I	Microprocessor command load signal
10	SENSE	O	Sense signal output (OFT,FESL,MAGEND,NAJEND,POSAD,SFG)
11	/FLOCK	O	Optical servo condition(focus)("L" : lead-in)
12	/TLOCK	O	Optical servo condition(tracking)("L" : lead-in)
13	BLKCK	O	Sub-code block clock (f=75Hz)
14	SQCK	I	External clock signal input for sub-code Q register
15	SUBQ	O	Sub-code Q code output
16	DMUTE	I	Muting input ("H" : mute)
17	STAT	O	Status signal output (CRC,CUE,CLVS,TTSTVP,FCLV,SQCK)
18	/RST	I	Reset input
19	SMCK	O	1/2-divided clock signal of crystal oscillating at MSEL = "H" (fSMCK=8.4672MHz) 1/4-divided clock signal of crystal oscillating at MSEL="L" (fSMCK=4.2336MHz)
20	PMCK	O	1/192-divided clock signal of crystal oscillating (fPMCK=88.2kHz) (Not used, open)
21	TRV	O	Traverse servo control output
22	TVD	O	Traverse drive signal output
23	PC	O	Spindle motor ON signal output ("L" : ON)
24	ECM	O	Spindle motor drive signal output (forced mode output)
25	ECS	O	Spindle motor drive signal output (servo error signal output)
26	KICK	O	Kick pulse output
27	TRD	O	Tracking drive output
28	FOD	O	Focus drive output
29	VREF	I	D/A (drive) output (TVD,ECS,TRD,FOD, FBAL,TBAL) Reference voltage input.
30	FBAL	O	Focus balance adjustment output (Not used,open)

Pin No.	Mark	I/O	Function
31	TBAL	O	Tracking balance adjustment output
32	FE	I	Focus error signal input (analog input)
33	TE	I	Tracking error signal input (analog input)
34	RFENV	I	RF envelope signal input
35	VDET	I	Vibration detection signal input ("H" : detection)
36	OFT	I	Off-track signal input ("H" : off track)
37	TRCRS	I	Track cross signal input
38	/RFDET	I	RF detection signal input ("L" : detection)
39	BDO	I	Dropout signal input ("H" : Dropout)
40	LDON	O	Laser on signal output ("H" : ON)
41	TES	O	Tracking error shunt signal output ("H" : shunt)
42	PLAY	O	Play signal out ("H" : PLAY)
43	WVEL	O	Double speed status signal output ("H" : DS)
44	ARF	I	RF signal input
45	IREF	I	Reference current input
46	DRF	I	DSL bias (Not used, open)
47	DSLF	I/O	DSL loop filter
48	PLLF	I/O	PLL loop filter
49	VCOF	I/O	VCO loop filter (Not used, open)
50	AVDD2	I	Power supply input (for analog circuit)
51	AVSS2	—	GND (for analog circuit)
52	EFM	O	EFM signal output (Not used, open)
53	PCK	O	PLL extraction clock ouput (Not used, open) (fPCK=4.321 MHz during normal playback)
54	PDO	O	Phase comparison signal of EFM and PCK signals (Not used, open)
55	SUBC	O	Sub-code serial data output (Not used, open)
56	SBCK	I	Clock input for sub-code serial data (Not used, open)
57	VSS	—	GND
58	X1	I	Crystal oscillating circuit input (f=16.9344MHz)
59	X2	O	Crystal oscillating circuit output (f=16.9344MHz)
60	VDD	I	Power supply input (for oscillating circuit)
61	BYTCK	O	Byte clock output (Not used, open)
62	/CLDCK	O	Sub-code frame clock signal output (fCLDCK=7.35kHz during normal playback)

Pin No.	Mark	I/O	Function
63	FCLK	O	Crystal frame clock signal output (fCLK=7.35kHz, double=14.7kHz)
64	IPFLAG	O	Interpolation flag output ("H" : interpolation) (Not used, open)
65	FLAG	O	Flag output (Not used, open)
66	CLVS	O	Spindle servo phase synchronizing signal output ("H" : CLV, "L" : rough servo) (Not used, open)
67	CRC	O	Sub-code CRC checked output ("H" : OK, "L" : NG) (Not used, open)
68	DEMPH	O	De-emphasis ON signal output ("H" : ON) (Not used, open)
69	RESY	O	Frame resynchronizing signal output (Not used, open)
70	/RST2	I	Reset input through MASH circuit ("L" : Reset)
71	/TEST	I	Test input
72	AVDD1	I	Power supply input (for analog circuit)

Pin No.	Mark	I/O	Function
73	OUTL	O	Left channel audio signal output
74	AVSS1	—	GND
75	OUTR	O	Right channel audio signal output
76	RSEL	I	RF signal polarity assignment input (at "H" level, RSEL="H", at "L" level, RESL="L")
77	CSEL	I	Crystal oscillating frequency designation input "L" : 16.9344MHz "H" : 33.8688MHz
78	PSEL	I	Test input (normally "L") (Not used, open)
79	MSEL	I	Output frequency switching for SMCK terminal "H" : SMCK=8.4672MHz "L" : SMCK=4.2336MHz (Not used, open)
80	SSEL	I	Output mode switching of SUBQ terminal ("H" : Q code buffer mode)

• IC701 (AN8802SCE1V)

Pin No.	Mark	I/O	Function
1	PDAD	I	PDA channel signal input with delay
2	PDA	I	PDA channel signal input without delay
3	LPD	I	Laser PD connection
4	LD	O	Power supply for LD driving
5	AMPI	I	RF amplifier input
6	VCC	I	Power supply connection
7	AMPO	O	RF amplifier output (Not used, open)
8	CAGC	I	AGC loop filter connection
9	ARF	O	RF AGC output
10	CENV	I	Capacitor connection for RF detection
11	CEA	I	Capacitor connection for HPF amplifier
12	GND	—	Ground connection
13	LDON	I	ON/OFF input of LD APC("H" : ON, "L" : OFF)
14	TES	I	Tracking error shunt signal input
15	PLAY	I	Play signal input ("H" : PLAY)
16	WVEL	I	Double speed ("H" : double, "L" : single)

Pin No.	Mark	I/O	Function
17	BDO	O	Dropout detection control
18	/RFDET	O	RF detection signal ("L" : detection)
19	CROSS	O	Tracking error zero cross output
20	OFTR	O	Off-track detection ("H" : detection)
21	VDET	O	Vibration detection signal output("H" : detection)
22	ENV	O	Envelope output terminal
23	TEBPF	I	Vibration detection signal input
24	TE	O	Tracking error signal output
25	FE	O	Focus error signal output
26	PTO	O	Potentioamplifier inversion input (Not used, open)
27	PTI	I	Potentioamplifier inversion output (Not used, open)
28	TBAL	I	Tracking balance signal input
29	FBAL	I	Focus balance signal input
30	VREF	O	Reference voltage output
31	PDB	I	Photo detection Bch input without delay
32	PDBD	I	Photo detection Bch input with delay

• IC801 (M38223M4052)

Pin No.	Mark	I/O Division	Function
1	VL2	I	LCD bias reference voltage input V2
2	VL1	I	LCD bias reference voltage input V1
3	PCNT	O	Power supply circuit control signal output
4	BATT	I	Battery state signal input
5	REGION	—	GND
6	KEY3	I	Key source input
7	KEY2		
8	KEY1		
9	TAPE L	O	Tape detect signal output
10	CD H	O	CD detect signal output
11	MTRSW	I	Motor switch
12	MUTE B	O	Muting control signal output
13	MUTE A	O	AF muting control signal output
14	REC H	O	REC detect signal output
15	RSTBY	I	Remote control sensor power control signal input
16	STEREO	I	PLL stereo signal input
17	RMT	I	Remote control pulse signal input
18	BLKCK	I	CD subcode block clock input
19	TUNED	I	PLL tuner signal input
20	SQCK	O	CD subcode clock output
21	MONO	O	PLL mono signal output
22	SUBQ	I	CD subcode data input
23	CD CLOSE	I	CD cover close detection switch signal input
24	PWR	I	Main switch control signal input
25	REGION 2	—	GND
26	RESET SW	I	Reset switch (S701) signal input
27	RST	I	System reset signal input
28	XC IN	I	Crystal oscillator input (32.768kHz)
29	XC OUT	O	Crystal oscillator output (32.768kHz)
30	XIN	I	Clock input (4.19MHz)

Pin No.	Mark	I/O Division	Function
31	XOUT	O	Clock input (4.19MHz)
32	VSS	—	GND
33	MBP1	O	Beatproof control signal output
34	MBP2	O	Beatproof control signal output
35	SENSE	I	CD sense signal input
36	FLOCK	I	CD focus signal input
37	TLOCK	I	CD tracking signal input
38	STATUS	I	CD status signal input
39	CD RST	I	CD reset signal input
40	DMUTE	O	CD muting control signal output
41	MCLK	O	CD clock control signal output
42	MDATA	O	CD data control signal output
43	MLD	O	CD loading control signal output
44	VOL DA	O	PMW data signal output for electric volume circuit (IC303)
45	VOL CK	O	PMW clock signal output for electric volume circuit (IC303)
46	PLL CL	O	PLL tuner clock signal output
47	PLL CE	O	PLL tuner strove signal output
48	PLL DA	O	PLL tuner data signal output
49	SEG21	O	LCD segment signal output
〃	〃		
70	SEG0		
71	—	—	Not used, open.
72	—	—	Not used, open.
73	VDD	I	Power supply (+5V)
74	VREF	I	A/D converter reference voltage
75	AVSS	—	GND
76	COM3	O	LCD common signal output
〃	〃		
79	COM0		
80	VL3	I	LCD bias reference voltage input V3

• IC703 (AN8389SE1)

Pin No.	Mark	I/O	Function
1	VCC	I	Power supply terminal
2	VREF	I	Reference voltage input
3	IN4	I	Motor driver (4) input
4	IN3	I	Motor driver (3) input
5	GND	—	Ground connection
6	NC	—	Ground connection
7	NRESET	I	Reset input
8	GND	—	Ground connection
9	IN2	I	Motor driver (2) input
10	PC2	I	PC2 (power cut) input
11	IN1	I	Motor driver (1) input
12	PC1	I	PC1 (power cut) input (Not used, open)

Pin No.	Mark	I/O	Function
17	PVCC1	I	Power supply (1) for driver
18	PGND1	—	Ground connection (1) for driver
19	D1–	O	Motor driver (1) reverse-action output
20	D1+	O	Motor driver (1) forward-action output
21	D2–	O	Motor driver (2) reverse-action output
22	D2+	O	Motor driver (2) forward-action output
23	D3–	O	Motor driver (3) reverse-action output
24	D3+	O	Motor driver (3) forward-action output
25	D4–	O	Motor driver (4) reverse-action output
26	D4+	O	Motor driver (4) forward-action output
27	PGND2	—	Ground connection (2) for driver
28	PVCC2	I	Power supply (2) for driver

■ ALIGNMENT POINTS

< TUNER SECTION >

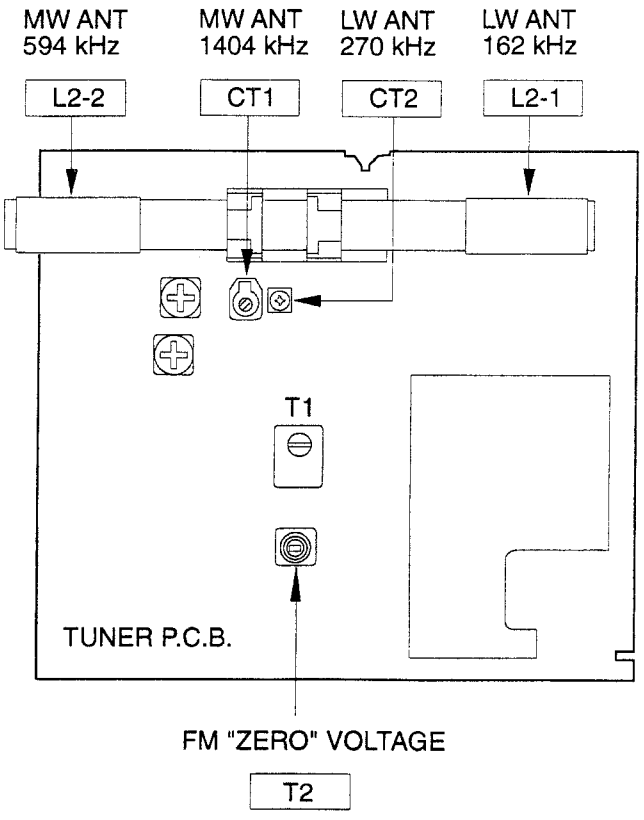


Fig. 1

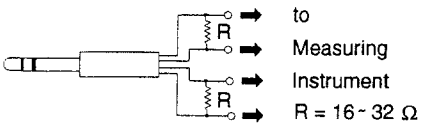


Fig. 2

■ MEASUREMENTS AND ADJUSTMENTS

■ TUNER SECTION

• ALIGNMENT INSTRUCTION

READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT	
• Set power source voltage to 230 – 240 V AC. • Set volume control to maximum. • Set function switch to TUNER/BAND.	• Set XBS switch to OFF. • Output of signal generator should be no higher than necessary to obtain an output reading.
Note : No AM IF, FM IF, FM RF and FM STEREO alignment are required.	

• MW-RF ALIGNMENT

SIGNAL GENERATOR or SWEEP GENERATOR		RADIO DIAL SETTING	INDICATOR (ELECTRONIC VOLTMETER or OSCILLOSCOPE)	ADJUSTMENT (Shown in Fig. 1)	REMARKS
CONNECTIONS	FREQUENCY				
Fashion a loop of several turns of wire and radiate a signal into the loop ant. of receiver.	594 kHz	Tune to signal	Headphone Jack (32Ω) (Fabicate the plug as shown in Fig.2 and then connect the lead wires of the plug to the measuring instrument.)	[*1] L2-2 (MW ANT Coil)	Adjust for maximum output. Adjust L2-2 by moving coil bobbin along ferrite core.
"	1404 kHz	"	"	CT1 (MW ANT Trimmer)	Adjust for maximum output.
[*1] Fix antenna coil with wax after completing alignment.					

• LW-RF ALIGNMENT

SIGNAL GENERATOR or SWEEP GENERATOR		RADIO DIAL SETTING	INDICATOR (ELECTRONIC VOLTMETER or OSCILLOSCOPE)	ADJUSTMENT (Shown in Fig. 1)	REMARKS
CONNECTIONS	FREQUENCY				
"	162 kHz	"	"	[*1] L2-1 (LW ANT Coil)	Adjust for maximum output. Adjust L2-1 by moving coil bobbin along ferrite core.
"	270 kHz	"	"	CT2 (LW ANT Trimmer)	Adjust for maximum output.
[*1] Fix antenna coil with wax after completing alignment.					

• FM "ZERO" VOLTAGE ALIGNMENT

FM SIGNAL SOURCE CONNECTION	EQUIPMENT CONNECTION ELECTRONIC VOLTMETER	ADJUSTMENT (Shown in Fig. 1)	SPECIFICATION	REMARKS
Input FM signal 98 MHz, 60 dB to test point TP1 . Negative side to test point TP2 .	TP6 ....(+) TP7 ....(–)	T2	– 0.1V ± 50mV	1. Tune frequency to 98 MHz. 2. Adjust the coil T2 to be within the range of specification.

■ CASSETTE DECK SECTION

• ALIGNMENT INSTRUCTION

READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT
Note : No Azimuth Head Alignment is required due to Aztec Head is used in the cassette mechanism.

■ CD PLAYER SECTION

Warning: This product uses a laser diode. Refer to caution statements on page 2.

Caution: It is very dangerous to look or touch the laser beam. (laser radiation is invisible)
With the unit turned "on", laser radiation is emitted from the pickup lens.
Avoid exposure to the laser beam, especially when performing adjustments.

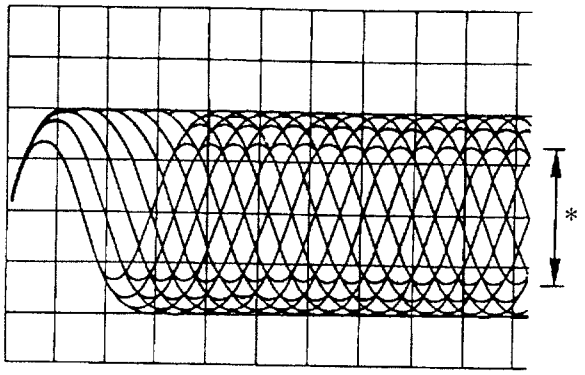
Measuring Instruments and Special Tools

* Test discs
1. Playability test disc (SZZP1054C).
2. Uneven test disc (SZZP1056C).
* Musical program disc (ordinary).
* Dual-beam oscilloscope with bandwidth of 30 MHz or better (with EXT. trigger and 1 : 1 probe).
* Allen wrench (M2.0) (SZZP1101C).
* Lock paint (RZZ0L01)

(1) MECHANICAL ADJUSTMENT

- When the traverse deck is replaced, making adjustments is not necessary. (The traverse deck ass'y is already adjusted.)
- Make adjustments to improve playability if the traverse deck has not been replaced.

1. Connect the oscilloscope's CH. 1 probe across TJ701 (RF) (+) and TJ702 (V-Ref.) (–) on the servo P.C.B.
   Oscilloscope setting : VOLT .....200mV.
   SWEEP.....0.5μs.
   Input coupling .....AC.
2. Switch the player power **ON**, and play track **19** on the test disc (SZZ1056C).
   (Playing any other track will prevent the HEX screws from being accessed.)
3. Leave the player in play mode.
4. Alternately adjust the HEX screws with the 2.0mm allen wrench (SZZP1101C) until the vertical fluctuation of RF signal is minimized and the eye pattern is most stretched. (Refer to Fig. 2 on page 37)
5. After completing the adjustment, lock the HEX screws with lock paint (RZZ0L01).



* Most stretched eye pattern

(3) CHECK OF PLAY OPERATION AFTER ADJUSTMENT

*** Checking skip Search**
1. Play an ordinary musical program disc.
2. Press the skip button to check for normal skip search operation (in both the forward and reverse directions).

*** Checking Manual Search**
1. Play an ordinary musical program disc.
2. Press the manual search button to check for smooth manual search operations at either low or high speed (in both the forward and reverse directions).

*** Checking Playability**
1. Play the 0.7mm black dot and the 0.7mm wedge on the test disc (SZZP1054C) and verify that no sound skip or noise occurs.
2. Play the middle tracks of the uneven test disc (SZZP1056C) and verify that no sound skip or noise occurs.

■ ALIGNMENT POINTS

< CD PLAYER SECTION >

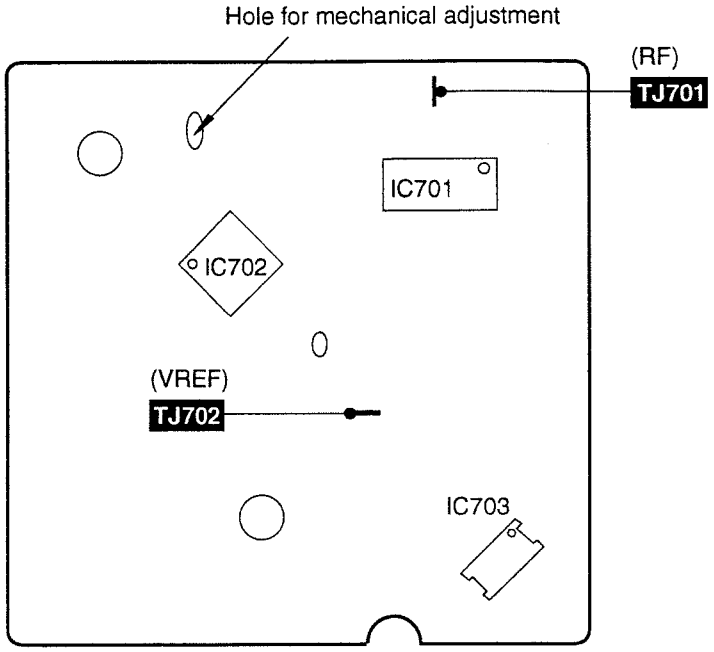


Fig.1

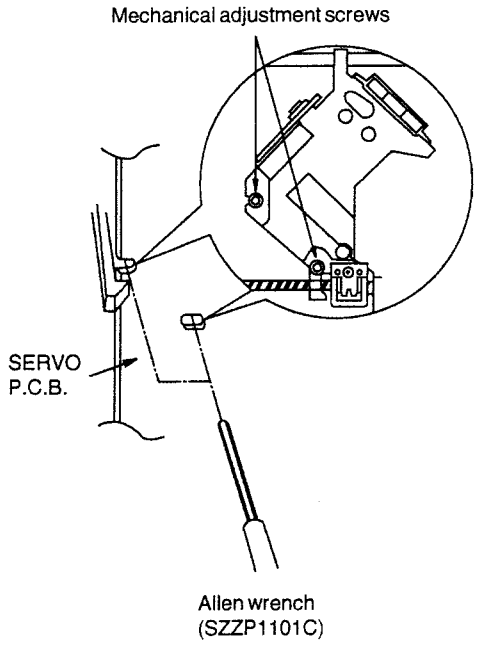
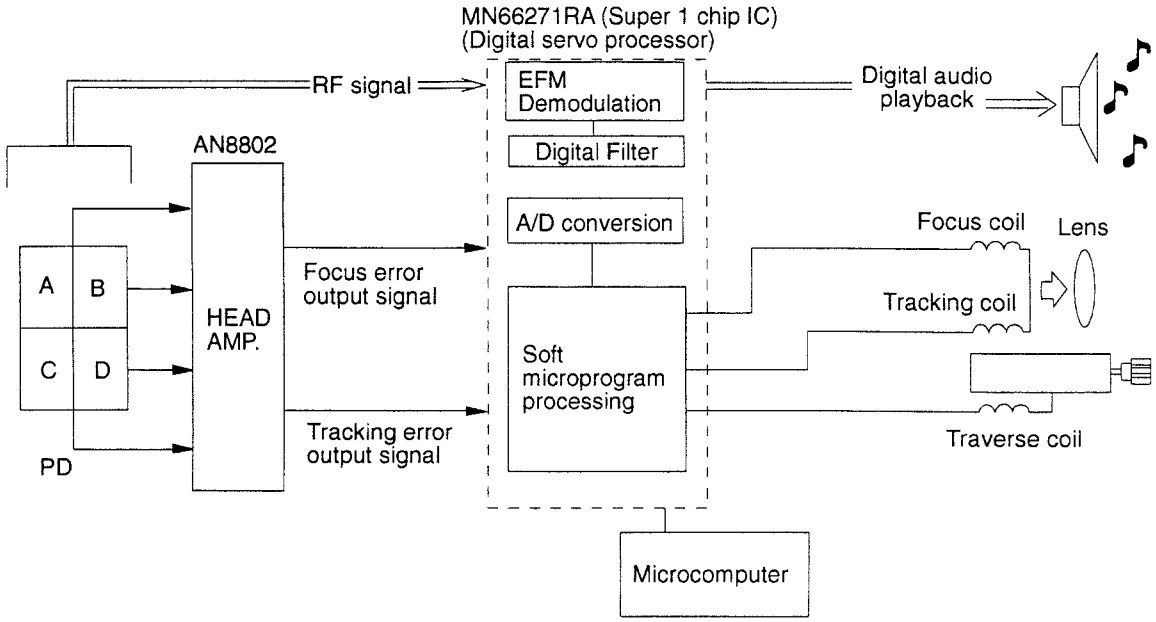


Fig.2

■ DIGITAL SERVO SYSTEM

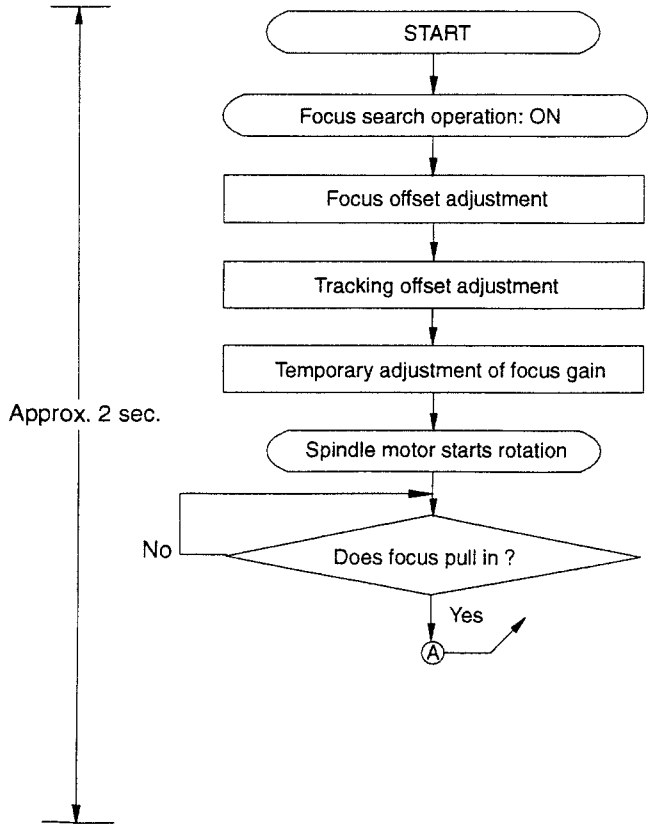
DIGITAL SERVO SYSTEM

This servo system has no adjustment VRs.

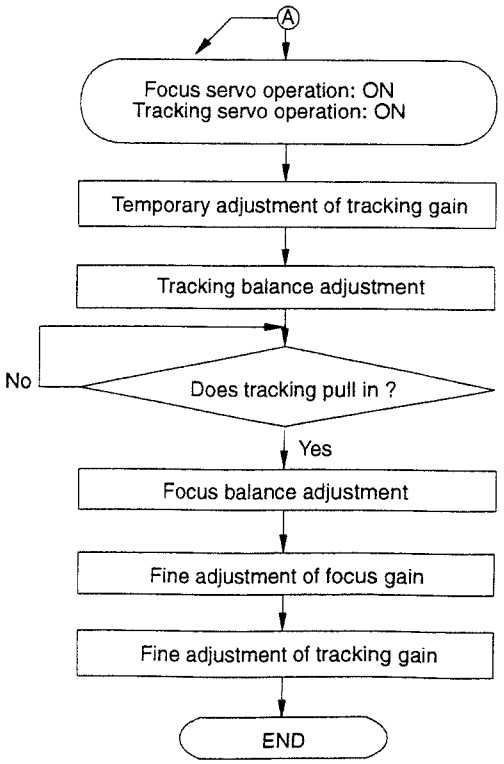


The following flow chart shows the sequence of automatic adjustments.

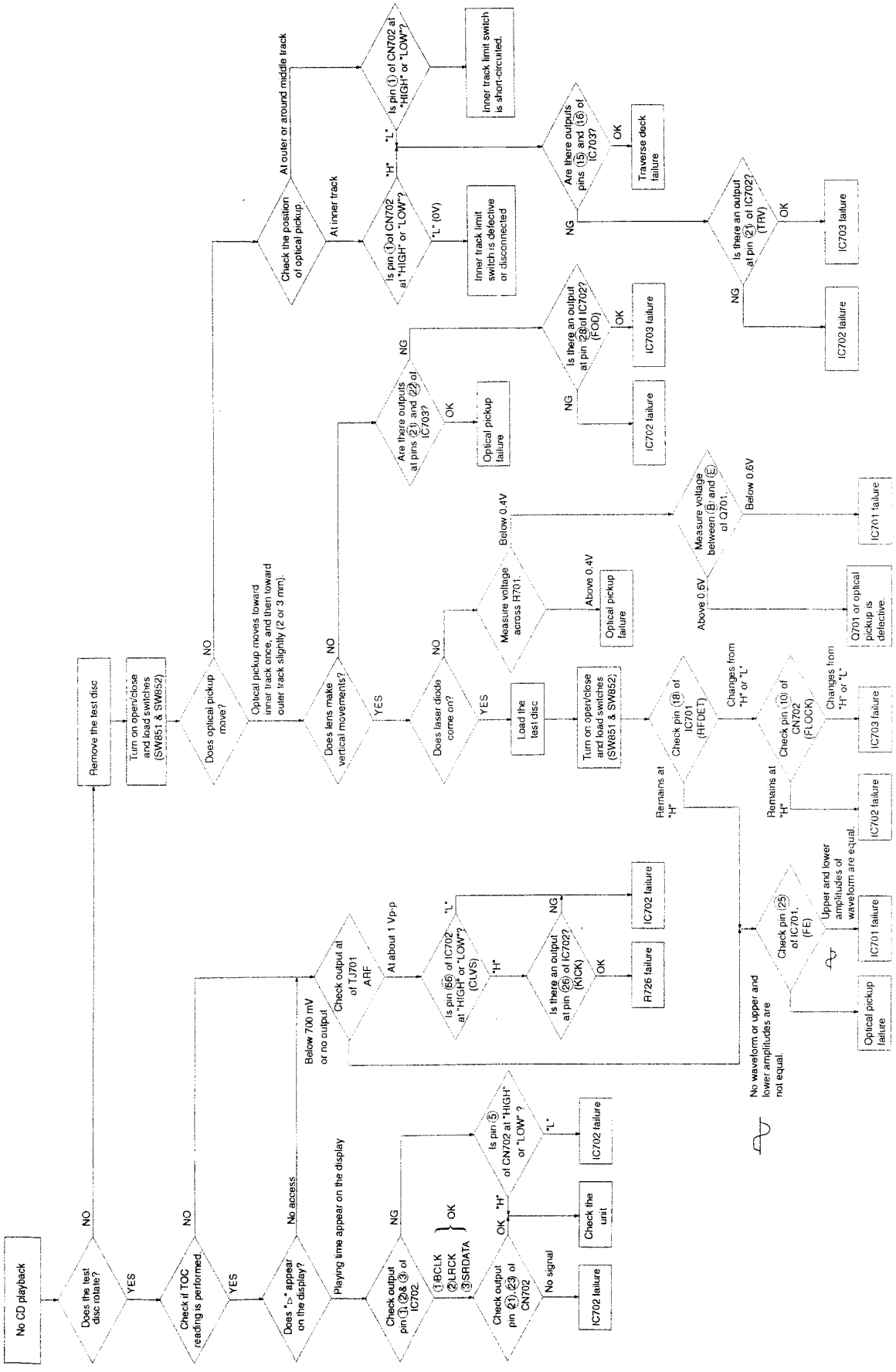
- **Flow chart on automatic adjustment sequence**



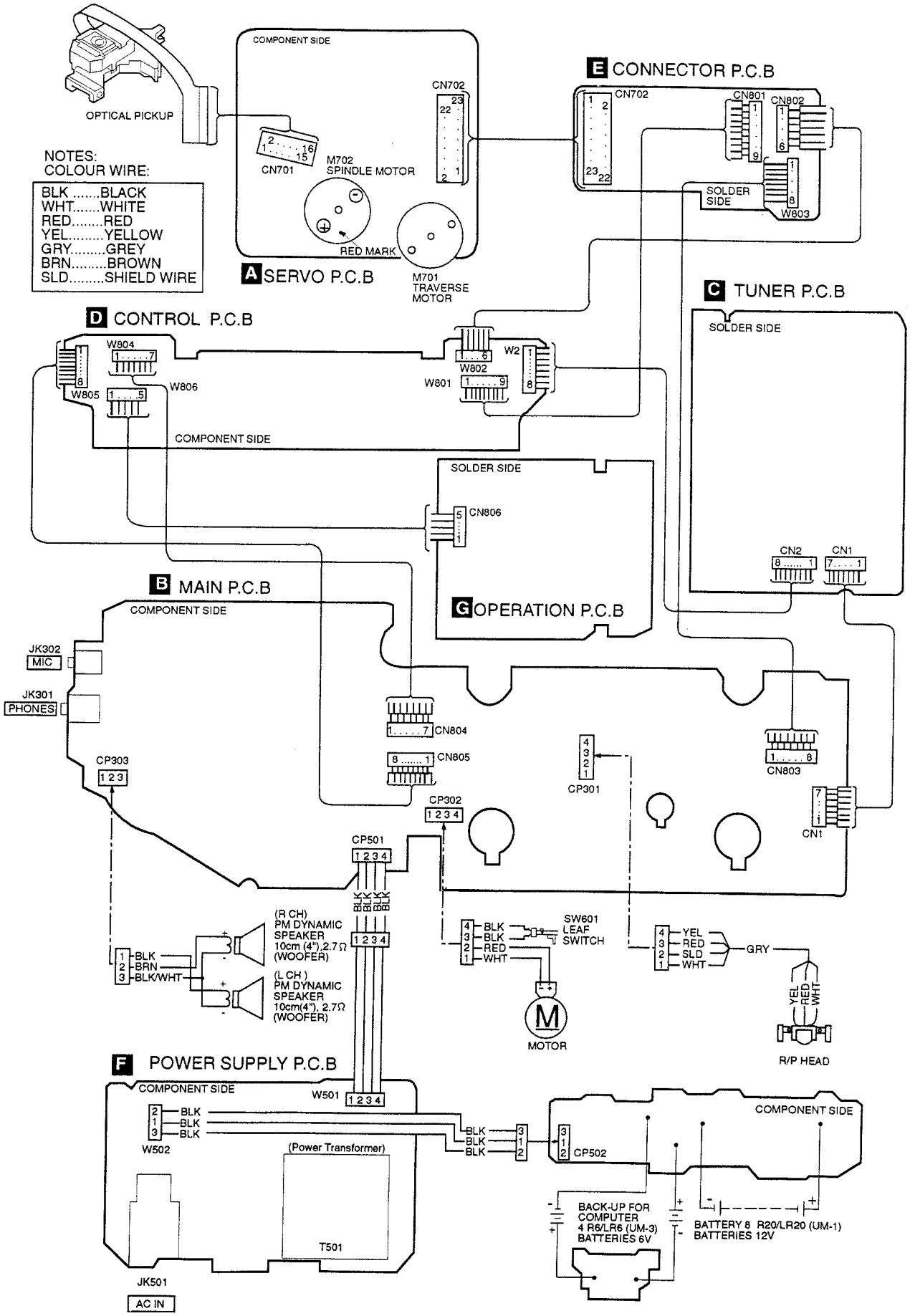
* Because the microcomputer precisely performs the automatic adjustments as shown in the flow chart, it will take approx. 5 seconds to finish reading TOC data if a used disc is ecentric or the surface is warped.



■ TROUBLESHOOTING GUIDE



■ WIRE CONNECTION DIAGRAM

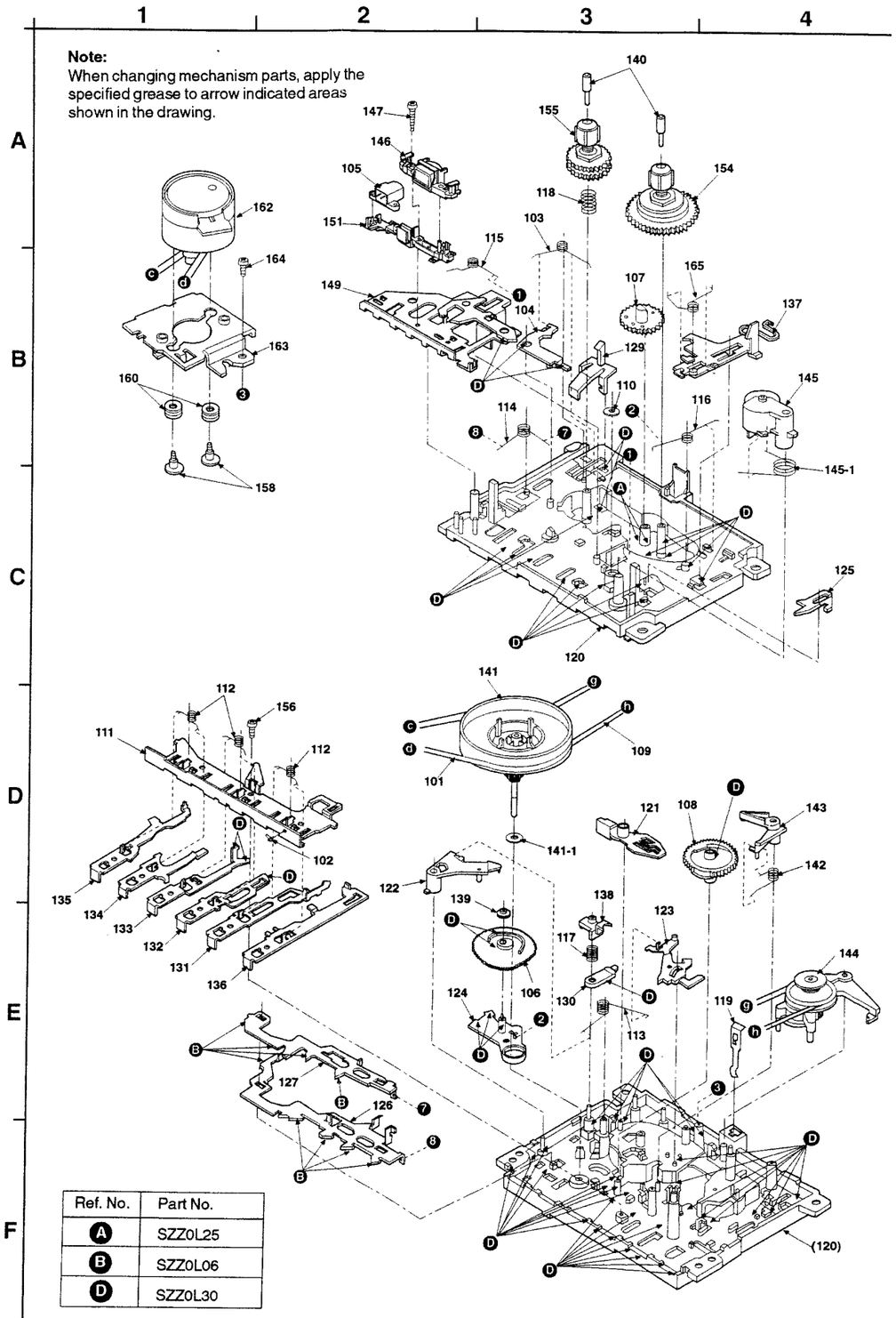


■ MECHANISM PARTS LIST

NOTES: [M] Indicates in the Remarks columns indicates parts supplied by MESA.

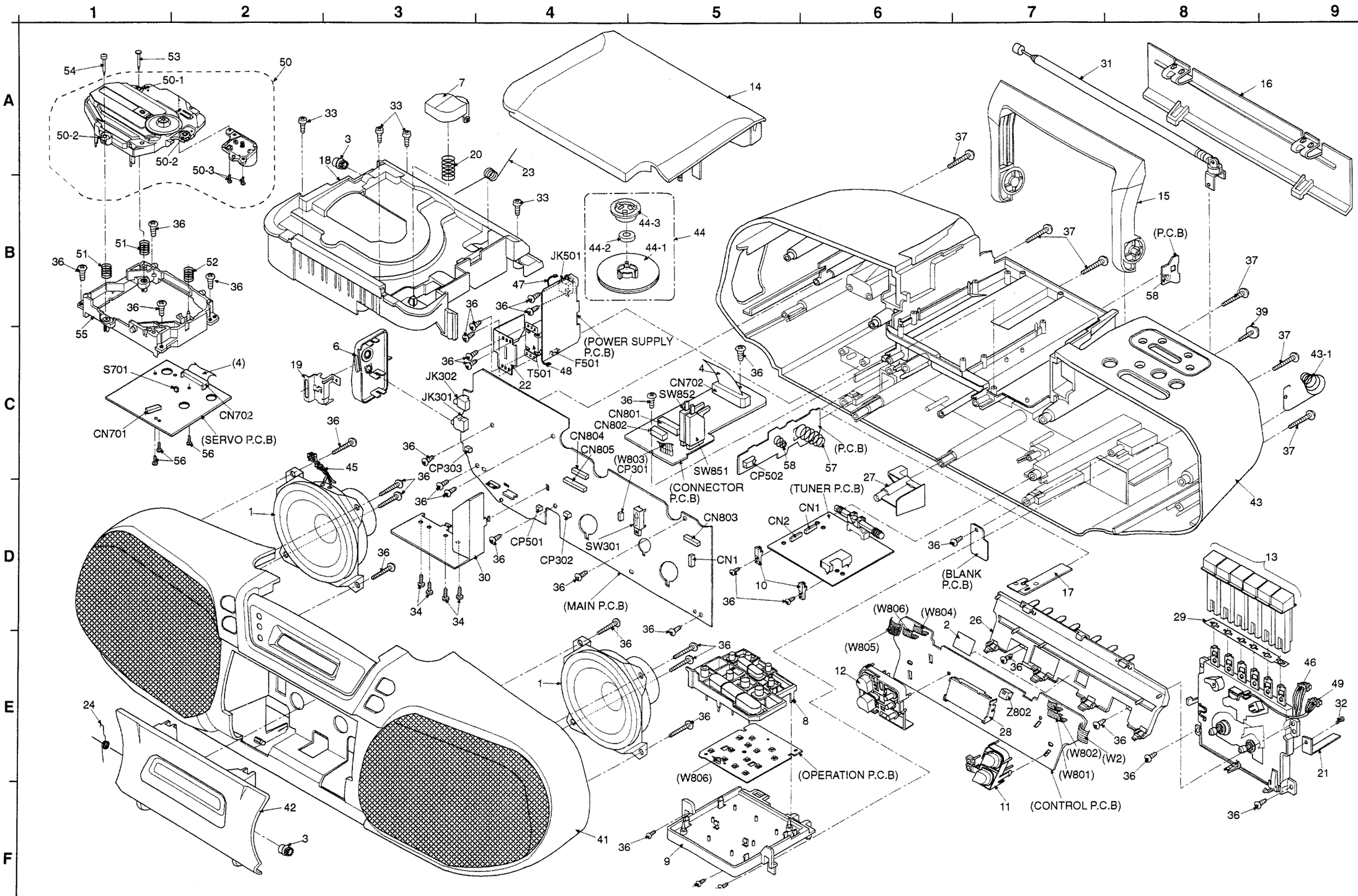
Ref No.	Part No.	Part Name & Description	Remarks
		CASSETTE MECHANISM	
101	RDV0007	MAIN BELT	[M]
102	RJR0033	EARTH LUG	[M]
103	RMB0109-1	BRAKE SPRING	[M]
104	RML0116	BRAKE	[M]
105	RBR2CY009	ERASE HEAD	[M]
106	RDG0057	IDLER GEAR	[M]
107	RDG0059	FF RELAY GEAR	[M]
108	RDK0005	CAM GEAR	[M]
109	RDV0006-1	RF BELT	[M]
110	RHW16009	CAPSTAN WASHER	[M]
111	RMA0109	BACK PLATE	[M]
112	RMB0043-1	ROD OPERATION SPRING	[M]
113	RMB0045	AS SPRING	[M]
114	RMB0046-1	LOCK PLATE SPRING	[M]
115	RMB0047	HEAD PANEL SPRING	[M]
116	RMB0048	IDLER LEVER SPRING	[M]
117	RMB0053	PAUSE LEVER SPRING	[M]
118	RMB0125	BACK TENSION SPRING	[M]
119	RMC0061	PACK SPRING	[M]
120	RFKRCT090P-K	CHASSIS ASS'Y	[M]
121	RML0071	SWING LEVER	[M]
122	RML0072	AS RELEASE LEVER	[M]
123	RML0073-1	AS PROTECT LEVER	[M]
124	RML0074	IDLER LEVER	[M]
125	RML0076	EJECT SELECTION LEVE	[M]
126	RML0077	LOCK PLATE	[M]
127	RML0078	FUNCTION PLATE	[M]
129	RML0081-1	RECORD SAFETY LEVER	[M]
130	RML0082	PAUSE LEVER	[M]
131	RMM0023	PLAY ROD	[M]
132	RMM0024	REW ROD	[M]
133	RMM0025	FF ROD	[M]
134	RMM0026	STOP ROD	[M]
135	RMM0027	PAUSE ROD	[M]
136	RMM0028	REC ROD	[M]
137	RMM0029	EJECT SLIDE LEVER	[M]
138	RMR0211	PAUSE BUSH	[M]
139	RMR0227	IDLER GEAR BUSH	[M]
140	RMS0055	REEL SHAFT	[M]
141	RXF0012	FLYWHEEL ASSY	[M]
141-1	RHW21008	FLYWHEEL WASHER	[M]
142	RMB0044	TRIGGER SPRING	[M]
143	RML0075	TRIGGER LEVER	[M]
144	RXP0014	RF CLUTCH ASSY	[M]
145	RXP0015	PINCH ROLLER ASSY	[M]
145-1	RMB0049	PINCH ARM SPRING	[M]
146	RBR4CY016-M	STEREO ASTEC HEAD	[M]
147	XTN2+12F	R/P HEAD SCREW	[M]
149	RMA0696	HEAD BASE	[M]
151	RMQ0384	HEAD BASE	[M]
154	RXR0004	TAKE UP REEL ASSY	[M]
155	RXR0005	SUPPLY REEL ASSY	[M]
156	XTN2+6J	BACK PLATE SCREW	
158	RHD26002	MOTOR SCREW	
160	RMG0102	MOTOR RUB. CUSH.	[M]
162	RFKPXDS101PK	DC MOTOR ASS'Y	[M]
163	RMA0108	MOTOR BK	[M]
164	XTN26+8J	MOTOR BK SCREW	
165	RME0098-2	EJECT SLIDE LEVER SP	[M]

■ MECHANISM PARTS LOCATION (RAA0919)



Ref. No.	Part No.
A	SZZ0L25
B	SZZ0L06
D	SZZ0L30

■ CABINET PARTS LOCATION



■ REPLACEMENT PARTS LIST

Notes: * Important safety notice:
Components identified by ⚠ mark have special characteristics important for safety.
Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low noise (resistors), etc are used.
When replacing any of these components, be sure to use only manufacturer's specified parts shown in the parts list.
* The parenthesized indications in the Remarks columns specify the areas or colour. (Refer to the cover page for area or colour)
Parts without these indications can be used for all areas.
* Warning : This product uses a laser diode. Refer to caution statements on page 2.
ACHTUNG : Die lasereinheit nicht zerlegen.
Die lasereinheit darf nur gegen eine vom herstellar spezifizierte einheit ausgetauscht werden.
* [M] Indicates in the Remarks columns indicates parts supplied by **MESA.**

Ref No.	Part No.	Part Name & Description	Remarks
		CABINET AND CHASSIS	
1	EASG10P553B2	SPEAKER	[M]
2	RSC0381	HEAD SHIELD PLATE	[M]
3	RDG0183-L	DAMPER GEAR	[M]
4	REE0530	FFC WIRE	[M]
6	RGQ0126C-K	JACK COVER	[M]
7	RGU0977-K	CD EJECT BUTTON	[M]
8	RGU1020-K	FUNCTION BUTTON	[M]
9	RMK0239	BUTTON CHASSIS	[M]
10	RMR0631-K	PCB HOLDER	[M]
11	RGZ0019A-K	OP. CD BUTTON (A)	[M]
12	RGZ0020-K	OP. CD BUTTON (B)	[M]
13	RGZ0021-K	MECHA BUTTON	[M]
14	RKF0347-K	CD LID	[M]
15	RKH0021-K	HANDLE	[M]
16	RKK347ZB-0	BATTERY COVER	[M]
17	RKQ0157-K	AC FUSE COVER	[M]
18	RKQ0156-K	TOP CAB.	[M]
19	RMA0749	JACK HOLDER	[M]
20	RMB0244	CD BUTTON SPRING	[M]
21	RMC0076	R/P SPRING	[M]
22	RMC0233	SHIELD PLATE	[M]
23	RME0147	CD OPEN SPRING	[M]
24	RME0148	CASS. OPEN SPRING	[M]
26	RMK0226	PCB HOLD CHASSIS	[M]
27	RML0322	REC LEVER	[M]
28	RMN0256	LCD HOLDER	[M]
29	RMX0045	SPACER	[M]
30	RMY0128	HEAT SINK	[M]
31	XEARR175ED-Y	R. ANT	
32	XTN2+3F	SCREW	
33	XTN3+10CFZ	SCREWS	
34	XTV3+10F	HEAT SINK SCREW	
36	XTV3+12G	CASING SCREW	
37	XTV3+20G	TOP SCREWS	
39	XYN3+F8FY	R. ANT SCREW	
41	RFKGXDS25EBK	FRONT CAB. ASS'Y	[M]
42	RFKLRXDS15PK	CASS. HOLDER ASS'Y	[M]
43	RFKHXDS25EBK	BACK CAB. ASS'Y	[M]
43-1	RJC931YA	BATT. TERMINAL	[M]
44	RFKNRXDS15PA	DISC HOLDER ASS'Y	[M]
44-1	RFKNXDS55N-K	HOLDER ASS'Y	
44-2	RHM245ZA	MAGNET	
44-3	RMQ0152-E	MAGNET HOLDER	[M]
45	REX0569	SP CONNECT WIRE	[M]
46	REX0570	MECHA MOTOR WIRE	[M]
47	REX0593	BATT. WIRE	[M]
48	REX0594-1	POWER SUPPLY WIRE	[M]
49	REX0596	MECHA HEAD WIRE	[M]
50	RAE0113Z	TRAVERSE UNIT	
50-1	SHGD112	FLOATING RUBBER (A)	
50-2	SHGD113-1	FLOATING RUBBER (B)	
50-3	XQS2+A35FZ	SCREW	
51	RME0109	FLOATING SPRING A	
52	RME0142	FLOATING SPRING B	
53	RMS0123-1	FIXED PIN A	
54	RMS0350	FIXED PIN B	
55	RMR0698-K	TRAVERSE CHASSIS	
56	XTV2+6G	SCREW	
57	RJC511YA	BATTERY TERMINAL	[M]
58	RJC751ZAA	BATTERY TERMINAL	[M]
		INTEGRATED CIRCUITS	
IC1	TA7358FMATEL	IC. FM RF	
IC2	LM7001M-TE-L	IC. PLL	
IC3	LA1831MSATEL	IC. IF MPX	
IC301	AN7317	IC. REC/PLAY AMP	[M]
IC302	TC4052BP	IC. FUNCTION SWITCH	[M]
IC303	M62414SP	IC. E. VOLUME	[M]
IC304	BA3936	IC. REGULATOR	⚠
IC305	S81250PG-T	IC. 5V REGULATOR	[M]
IC306	AN7135	IC. POWER	
IC801	M38223M4052	IC. MICROPROCCESSOR	[M]
IC802	S-806G-Z	IC. RESET	[M]
		TRANSISTORS	
Q1	2SC2785FTA	TRANSISTOR	

Ref No.	Part No.	Part Name & Description	Remarks
Q2	2SC2785FTA	TRANSISTOR	
Q3	2SC2787FL1TA	TRANSISTOR	
Q4	2SC2787LTA	TRANSISTOR	
Q5	BN1L3NTA	TRANSISTOR	[M]
Q6	2SJ40CDTA	TRANSISTOR	
Q7	2SJ40CDTA	TRANSISTOR	
Q8	2SD1020HTA	TRANSISTOR	[M]
Q9	BN1A4ZTA	TRANSISTOR	[M]
Q10	BA1A4MTA	TRANSISTOR	[M]
Q11	2SA1175FTA	TRANSISTOR	[M]
Q13	2SC2785FTA	TRANSISTOR	
Q14	BN1L3NTA	TRANSISTOR	[M]
Q16	2SD1020HTA	TRANSISTOR	[M]
Q17	BA1L4ZTA	TRANSISTOR	[M]
Q101	2SC2785FTA	TRANSISTOR	
Q102	2SC2785FTA	TRANSISTOR	
Q103	2SC2785FTA	TRANSISTOR	
Q104	2SC2785FTA	TRANSISTOR	
Q105	2SC2785FTA	TRANSISTOR	
Q108	2SC1684QTA	TRANSISTOR	
Q201	2SC2785FTA	TRANSISTOR	
Q202	2SC2785FTA	TRANSISTOR	
Q203	2SC2785FTA	TRANSISTOR	
Q204	2SC2785FTA	TRANSISTOR	
Q205	2SC2785FTA	TRANSISTOR	
Q208	2SC1684QTA	TRANSISTOR	
Q301	2SC2785FTA	TRANSISTOR	
Q302	2SC1740SRTA	TRANSISTOR	
Q303	2SC1740SRTA	TRANSISTOR	
Q304	2SC1684RTA	TRANSISTOR	
Q305	BN1A4MTA	TRANSISTOR	[M]
Q307	BN1A4MTA	TRANSISTOR	[M]
Q308	BA1A4MTA	TRANSISTOR	[M]
Q309	2SA1680TPE6	TRANSISTOR	[M]
Q310	2SC1684STA	TRANSISTOR	
Q311	BN1A4MTA	TRANSISTOR	[M]
Q313	BN1A4MTA	TRANSISTOR	[M]
Q314	2SC2785FTA	TRANSISTOR	
Q801	2SC2785FTA	TRANSISTOR	
Q802	2SC2785FTA	TRANSISTOR	
		DIODES	
D1	KV1360NT	DIODE	
D2	RVDMTZ7R5BTA	DIODE	
D3	KV1581A3	DIODE	
D4	KV1360NT	DIODE	
D5	RVDMTZ5R1CTA	DIODE	

Ref No.	Part No.	Part Name & Description	Remarks
D6	RVD1SS133TA	DIODE	
D305	RVD1SS133TA	DIODE	
D306	RVDMTZ6R8BTA	DIODE	
D307	RVDMTZ5R6BTA	DIODE	
D308	RVD1SS133TA	DIODE	
D311	RVD1SS133TA	DIODE	
D312	RVD1SS133TA	DIODE	
D313	RVD1SS133TA	DIODE	
D314	RVD1SS133TA	DIODE	
D315	RVD1SS133TA	DIODE	
D316	RVD1SS133TA	DIODE	
D321	RVD1SS133TA	DIODE	
D322	RVD1SS133TA	DIODE	
D323	RVD1SS133TA	DIODE	
D324	RVD1SS133TA	DIODE	
D325	RVDMTZ16BTA	DIODE	[M]
D326	RVD1SS133TA	DIODE	
D501	1N5402BM21	DIODE	⚠
D502	1N5402BM21	DIODE	⚠
D503	1N5402BM21	DIODE	⚠
D504	1N5402BM21	DIODE	⚠
D801	SPR54MVW229F	DIODE	[M]
D802	RVD1SS133TA	DIODE	
		VARIABLE CAPACITORS	
CT1	RCV10AF1T-S	TRIMMER CAPACITOR	
CT2	ECRLA020E53R	TRIMMER CAP	
		SWITCHES	
SW301	RSP2F001-1A	SW, REC	[M]
SW501	RJJ1SE01-H	SW, AC IN (JK501)	⚠
SW601	RSH1A006-U	SW, MOTOR	[M]
SW801	EVQ21405R	SW, CD EDIT	
SW802	EVQ21405R	SW, PROGRAM	
SW803	EVQ21405R	SW, REVERSE SKIP	
SW804	EVQ21405R	SW, FORWARD SKIP	
SW805	EVQ21405R	SW, REPEAT	
SW806	EVQ21405R	SW, STOP/CLEAR	
SW807	EVQ21405R	SW, PLAY/PAUSE	
SW808	EVQ21405R	SW, POWER	
SW809	EVQ21405R	SW, VOLUME DOWN	
SW810	EVQ21405R	SW, VOLUME UP	
SW811	EVQ21405R	SW, PRE. TUNE DOWN	
SW812	EVQ21405R	SW, PRE. TUNE UP	
SW813	EVQ21405R	SW, TUNING DOWN	
SW814	EVQ21405R	SW, TUNING UP	

Ref No.	Part No.	Part Name & Description	Remarks
SW815	EVQ21405R	SW, TAPE	
SW816	EVQ21405R	SW, TUNER/BAND	
SW817	EVQ21405R	SW, CD	
SW818	EVQ21405R	SW, XBS	
SW819	EVQ21405R	SW, MEMORY	
SW820	EVQ21405R	SW, FM MODE/BP	
SW851	RSH1A012-U	SW, CD OPEN/CLOSE	
SW852	RSH1A012-U	SW, CD LOADING	
		CONNECTORS	
CN1	RJP7G18ZA	CONNECTOR (7P)	
CN2	RJP8G18ZA	CONNECTOR (8P)	
CN101	RJS1A5207	CONNECTOR (7P)	
CN801	RJS1A5209	CONNECTOR (9P)	[M]
CN802	RJS1A5206	CONNECTOR (6P)	[M]
CN803	RJS1A5208	CONNECTOR (8P)	[M]
CN804	RJS1A5207	CONNECTOR (7P)	
CN805	RJS1A5208	CONNECTOR (8P)	[M]
CN806	RJS1A5205	CONNECTOR (5P)	[M]
CP301	RJP4G18ZA	CONNECTOR (4P)	
CP302	RJP4G18ZA	CONNECTOR (4P)	
CP303	RJP3G4YA	CONNECTOR (3P)	
CP501	RJP4G4YA	CONNECTOR (4P)	
CP502	RJP3G9YA	CONNECTOR (3P)	
		COILS & TRANSFORMERS	
L2	RLV6C006-0Z	AM F ANT	[M]
L3	RL02B007-T	MW OSC COIL	
L5	RLQZP8R2JT-Y	AXIAL COIL	
L6	RLQA101JT-D	AXIAL COIL	[M]
L8	RLQZP4R7KT-Y	AXIAL COIL	
L9	RLQZPR47KT-Y	AXIAL COIL	
L10	RLQZP4R7KT-Y	AXIAL COIL	
L11	RL01B003-T	LW OSC COIL	
L301	RL09B17-T	BIAS OSC COIL	
L501	RLL500050T-Y	RF CHOKE COIL	⚠
L502	RLL500050T-Y	RF CHOKE COIL	⚠
L801	RLQZN470KL-D	COIL	[M]
L802	RLQZP2R2KT-Y	COIL	
L803	RLQZP2R2KT-Y	COIL	
L805	RLQZP2R2KT-Y	COIL	
L806	RLQZP2R2KT-Y	COIL	
L811	RLQZP2R2KT-Y	COIL	
L812	RLQZP2R2KT-Y	COIL	
T1	RLI2Z012-T	AM IFT	
T2	RLI4B018-T	FM DET COIL	

Ref No.	Part No.	Part Name & Description	Remarks
T501	RTP1U1B002-X	POWER TRANSFORMER	[M] ⚠
		COMPONENT COMBINATIONS	
Z1	RCRBMT002-H	BPF	
Z801	RSL5102-H	LCD	[M]
Z802	RCDHC-278N	INFRARED SENSOR	
		CERAMIC FILTERS	
CF1	RLFFETWLA02D	FM IF CF	
CF2	RLFFETWLA02D	FM IF CF	
		OSCILLATORS	
X1	RSXZ456KM01	CERAROCK	
X2	RSXC7M20S04T	XTAL 7.2MHZ	
X801	RSXZ4M19M01T	CERAROCK	
X802	RSXD32K7S02	CRYSTAL (32 KHZ)	[M]
		FUSE	
F501	XBA2C20TB0	FUSE	⚠
		FUSE HOLDERS	
FH501	EYF52BC	FUSE HOLDER	
FH502	EYF52BC	FUSE HOLDER	
		JACKS	
JK301	RJJ37TK01-C	JK, HEADPHONE	[M]
JK302	RJJ1D25ZA-C	JK, MIX MIC	
JK501	RJJ1SE01-H	JK, AC	⚠

Ref No.	Part No.	Part Name & Description	Remarks
		< SERVO >	
		INTEGRATED CIRCUITS	
IC701	AN8802SCE1V	IC, HEAD AMP	
IC702	MN66271RA	IC, DIGITAL LSI	
IC703	AN8389SE1	IC, 4-CH DRIVER	
		TRANSISTOR	
Q701	2SB709S	TRANSISTOR	
		SWITCH	
S701	RSM0006-P	SW, RESET	
		CONNECTORS	
CN701	RJU035T016-1	CONNECTOR (16P)	
CN702	RJS1A6723-1Q	CONNECTOR (23P)	
		OSCILLATOR	
X701	RSXZ16M9M02T	CERAMIC OSC	
		CHIP JUMPERS	
RJ701	ERJ8GEY0R00A	0 1/10W	
RJ702	ERJ8GEY0R00A	0 1/10W	
RJ703	ERJ8GEY0R00A	0 1/10W	
RJ704	ERJ8GEY0R00A	0 1/10W	
RJ707	ERJ8GEY0R00A	0 1/10W	
RJ708	ERJ8GEY0R00A	0 1/10W	
RJ709	ERJ8GEY0R00A	0 1/10W	
RJ714	ERJ8GEY0R00A	0 1/10W	
RJ715	ERJ8GEY0R00A	0 1/10W	
RJ716	ERJ8GEY0R00A	0 1/10W	
RJ717	ERJ8GEY0R00A	0 1/10W	
RJ721	ERJ6GEY0R00A	0 1/10W	
RJ724	ERJ6GEY0R00A	0 1/10W	
RJ725	ERJ6GEY0R00A	0 1/10W	
RJ726	ERJ6GEY0R00A	0 1/10W	
RJ799	ERJ6GEY0R00A	0 1/10W	
		TEST JUMPERS	
TJ701	EYF8CU	TEST JUMPER	
TJ702	EYF8CU	TEST JUMPER	

Ref No.	Part No.	Part Name & Description	Remarks

■ RESISTORS & CAPACITORS

Notes :
* Capacitor values are in microfarads (μF) unless specified otherwise, P=Pico-farads (pF), F=Farads.
* Resistance values are in ohms, unless specified otherwise, 1K=1,000 (OHM).
* Bracketed indications in Ref. No. columns specify the area (Refer to the first page for area). Parts without these indications can be used for all areas.
* [M] Indicates in the values & remarks column indicates parts supplied by **MESA**

Ref. No.	Part No.	Values & Remarks
		RESISTORS
R1	ERDS2TJ104T	100K 1/4W
R2	ERDS2TJ152T	1.5K 1/4W
R3	ERDS2TJ104T	100K 1/4W
R4	ERDS2TJ103T	10K 1/4W
R5	ERDS2TJ104T	100K 1/4W
R6	ERDS2TJ102T	1K 1/4W
R7	ERDS2TJ330T	33 1/4W
R8	ERDS2TJ332T	3.3K 1/4W
R9	ERDS2TJ102T	1K 1/4W
R10	ERDS2TJ101T	100 1/4W
R11	ERDS2TJ151T	150 1/4W
R12	ERDS2TJ103T	10K 1/4W
R13	ERDS2TJ104T	100K 1/4W
R14	ERDS2TJ471T	470 1/4W
R15	ERDS2TJ102T	1K 1/4W
R16	ERDS2TJ102T	1K 1/4W
R17	ERDS2TJ334T	330K 1/4W
R18	ERDS2TJ331T	330 1/4W
R20	ERDS2TJ103T	10K 1/4W
R21	ERDS2TJ103T	10K 1/4W
R22	ERDS2TJ334T	330K 1/4W
R23	ERDS2TJ272T	2.7K 1/4W
R24	ERDS2TJ103T	10K 1/4W
R25	ERDS2TJ103T	10K 1/4W
R26	ERDS2TJ103T	10K 1/4W
R27	ERDS2TJ103T	10K 1/4W
R28	ERDS2TJ103T	10K 1/4W
R29	ERDS2TJ331T	330 1/4W
R30	ERDS2TJ183T	18K 1/4W
R31	ERDS2TJ333T	33K 1/4W
R32	ERDS2TJ332T	3.3K 1/4W
R34	ERDS2TJ223T	22K 1/4W
R35	ERDS2TJ390T	39 1/4W
R36	ERDS2TJ104T	100K 1/4W
R37	ERDS2TJ153T	15K 1/4W
R38	ERDS2TJ104T	100K 1/4W
R39	ERDS2TJ563T	56K 1/4W
R40	ERDS2TJ221T	220 1/4W
R41	ERDS2TJ561T	560 1/4W
R42	ERDS2TJ222T	2.2K 1/4W
R43	ERDS2TJ222T	2.2K 1/4W
R44	ERDS2TJ222T	2.2K 1/4W
R45	ERDS2TJ105T	1M 1/4W
R48	ERDS2TJ390T	39 1/4W
R51	ERDS2TJ104T	100K 1/4W
R52	ERDS2TJ103T	10K 1/4W
R53	ERDS2TJ104T	100K 1/4W
R59	ERDS2TJ103T	10K 1/4W
R101	ERDS2TJ470T	47 1/4W
R102	ERDS2TJ472T	4.7K 1/4W
R104	ERDS2TJ154T	150K 1/4W
R105	ERDS2TJ393T	39K 1/4W
R106	ERDS2TJ183T	18K 1/4W
R107	ERDS2TJ183T	18K 1/4W
R108	ERDS2TJ473T	47K 1/4W
R109	ERDS2TJ273T	27K 1/4W
R113	ERDS2TJ824T	820K 1/4W
R114	ERDS2TJ562T	5.6K 1/4W
R115	ERDS2TJ221T	220 1/4W
R117	ERDS2TJ393T	39K 1/4W
R118	ERDS2TJ183T	18K 1/4W
R119	ERDS2TJ123T	12K 1/4W
R120	ERDS2TJ124T	120K 1/4W
R121	ERDS2TJ473T	47K 1/4W
R123	ERDS2TJ103T	10K 1/4W
R124	ERDS2TJ332T	3.3K 1/4W
R126	ERDS2TJ153T	15K 1/4W
R127	ERDS2TJ103T	10K 1/4W
R128	ERDS2TJ563T	56K 1/4W
R129	ERDS2TJ563T	56K 1/4W
R130	ERDS2TJ105T	1M 1/4W
R131	ERDS2TJ682T	6.8K 1/4W
R132	ERDS2TJ153T	15K 1/4W
R137	ERDS2TJ472T	4.7K 1/4W
R138	ERDS2TJ2R7T	2.7 1/4W
R140	ERDS2TJ121T	120 1/4W
R143	ERDS2TJ823T	82K 1/4W
R201	ERDS2TJ470T	47 1/4W
R202	ERDS2TJ472T	4.7K 1/4W
R204	ERDS2TJ154T	150K 1/4W
R205	ERDS2TJ393T	39K 1/4W
R206	ERDS2TJ183T	18K 1/4W
R207	ERDS2TJ183T	18K 1/4W
R208	ERDS2TJ473T	47K 1/4W
R209	ERDS2TJ273T	27K 1/4W
R213	ERDS2TJ824T	820K 1/4W
R214	ERDS2TJ562T	5.6K 1/4W
R215	ERDS2TJ221T	220 1/4W
R217	ERDS2TJ393T	39K 1/4W
R218	ERDS2TJ183T	18K 1/4W
R219	ERDS2TJ123T	12K 1/4W
R220	ERDS2TJ124T	120K 1/4W
R221	ERDS2TJ473T	47K 1/4W
R223	ERDS2TJ103T	10K 1/4W
R224	ERDS2TJ332T	3.3K 1/4W
R226	ERDS2TJ153T	15K 1/4W
R227	ERDS2TJ103T	10K 1/4W
R228	ERDS2TJ563T	56K 1/4W
R229	ERDS2TJ563T	56K 1/4W
R230	ERDS2TJ105T	1M 1/4W
R231	ERDS2TJ682T	6.8K 1/4W
R232	ERDS2TJ153T	15K 1/4W
R237	ERDS2TJ472T	4.7K 1/4W
R238	ERDS2TJ2R7T	2.7 1/4W
R240	ERDS2TJ121T	120 1/4W
R243	ERDS2TJ823T	82K 1/4W
R301	ERDS2TJ222T	2.2K 1/4W
R302	ERDS2TJ104T	100K 1/4W
R303	ERDS2TJ332T	3.3K 1/4W
R304	ERDS2TJ470T	47 1/4W
R305	ERDS2TJ101T	100 1/4W
R306	ERDS2TJ101T	100 1/4W
R307	ERDS2TJ101T	100 1/4W
R308	ERDS2TJ106T	10M 1/4W
R309	ERDS2TJ473T	47K 1/4W
R310	ERDS2TJ473T	47K 1/4W
R311	ERDS2TJ221T	220 1/4W
R312	ERDS2TJ563T	56K 1/4W
R313	ERDS2TJ681T	680 1/4W
R314	ERDS2TJ222T	2.2K 1/4W
R315	ERDS2TJ100T	10 1/4W
R316	ERDS2TJ182T	1.8K 1/4W
R317	ERDS2TJ182T	1.8K 1/4W
R318	ERDS2TJ104T	100K 1/4W
R319	ERDS2TJ104T	100K 1/4W
R321	ERDS2TJ183T	18K 1/4W
R322	ERDS2TJ223T	22K 1/4W
R324	ERDS2TJ474T	470K 1/4W
R326	ERDS2TJ101T	100 1/4W
R327	ERDS2TJ122T	1.2K 1/4W
R328	ERDS2TJ333T	33K 1/4W
R329	ERDS2TJ331T	330 1/4W
R330	ERDS2TJ153T	15K 1/4W
R331	ERDS2TJ473T	47K 1/4W
R332	ERDS2TJ123T	12K 1/4W
R333	ERDS2TJ122T	1.2K 1/4W
R335	ERDS2TJ561T	560 1/4W
R338	ERDS2TJ332T	3.3K 1/4W
R340	ERDS2TJ221T	220 1/4W

Ref. No.	Part No.	Values & Remarks
R344	ERDS2TJ272T	2.7K 1/4W
R346	ERDS2TJ102T	1K 1/4W
R347	ERDS2TJ105T	1M 1/4W
R350	ERDS2TJ561T	560 1/4W
R351	ERDS2TJ121T	120 1/4W
R352	ERDS2TJ103T	10K 1/4W
R353	ERDS2TJ103T	10K 1/4W
R355	ERDS2TJ823T	82K 1/4W
R357	ERDS2TJ101T	100 1/4W
R358	ERDS2TJ121T	120 1/4W
R359	ERDS2TJ152T	1.5K 1/4W
R360	ERDS2TJ152T	1.5K 1/4W
R361	ERDS2TJ101T	100 1/4W
R362	ERDS2TJ101T	100 1/4W
R363	ERDS2TJ222T	2.2K 1/4W
R364	ERDS2TJ103T	10K 1/4W
R366	ERDS2TJ103T	10K 1/4W
R367	ERDS2TJ103T	10K 1/4W
R368	ERDS2TJ273T	27K 1/4W
R369	ERDS2TJ103T	10K 1/4W
R370	ERDS2TJ103T	10K 1/4W
R371	ERDS2TJ562T	5.6K 1/4W
R372	ERDS2TJ123T	12K 1/4W
R373	ERDS2TJ102T	1K 1/4W
R801	ERDS2TJ822T	8.2K 1/4W
R802	ERDS2TJ562T	5.6K 1/4W
R803	ERDS2TJ392T	3.9K 1/4W
R804	ERDS2TJ272T	2.7K 1/4W
R805	ERDS2TJ222T	2.2K 1/4W
R806	ERDS2TJ152T	1.5K 1/4W
R807	ERDS2TJ153T	15K 1/4W
R809	ERDS2TJ104T	100K 1/4W
R810	ERDS2TJ104T	100K 1/4W
R811	ERDS2TJ104T	100K 1/4W
R812	ERDS2TJ153T	15K 1/4W
R813	ERDS2TJ104T	100K 1/4W
R814	ERDS2TJ153T	15K 1/4W
R815	ERDS2TJ102T	1K 1/4W
R816	ERDS2TJ102T	1K 1/4W
R817	ERDS2TJ102T	1K 1/4W
R818	ERDS2TJ102T	1K 1/4W
R819	ERDS2TJ102T	1K 1/4W
R821	ERDS2TJ102T	1K 1/4W
R822	ERDS2TJ102T	1K 1/4W
R823	ERDS2TJ102T	1K 1/4W
R824	ERDS2TJ102T	1K 1/4W
R825	ERDS2TJ102T	1K 1/4W
R826	ERDS2TJ472T	4.7K 1/4W
R827	ERDS2TJ472T	4.7K 1/4W
R828	ERDS2TJ106T	10M 1/4W
R829	ERDS2TJ334T	330K 1/4W
R830	ERDS2TJ104T	100K 1/4W
R831	ERDS2TJ474T	470K 1/4W
R832	ERDS2TJ104T	100K 1/4W

Ref. No.	Part No.	Values & Remarks
R834	ERDS2TJ103T	10K 1/4W
R835	ERDS2TJ103T	10K 1/4W
R837	ERDS2TJ471T	470 1/4W
R838	ERDS2TJ471T	470 1/4W
R839	ERDS2TJ471T	470 1/4W
R840	ERDS2TJ102T	1K 1/4W
R841	ERDS2TJ102T	1K 1/4W
R842	ERDS2TJ102T	1K 1/4W
R843	ERDS2TJ102T	1K 1/4W
R844	ERDS2TJ102T	1K 1/4W
R845	ERDS2TJ102T	1K 1/4W
R852	ERDS2TJ103T	10K 1/4W
R853	ERDS2TJ104T	100K 1/4W
R858	ERDS2TJ102T	1K 1/4W
R859	ERDS2TJ102T	1K 1/4W
R860	ERDS2TJ102T	1K 1/4W
R861	ERDS2TJ102T	1K 1/4W
R865	ERDS2TJ563T	56K 1/4W
R866	ERDS2TJ102T	1K 1/4W
R880	ERDS2TJ152T	1.5K 1/4W
R881	ERDS2TJ222T	2.2K 1/4W
R882	ERDS2TJ272T	2.7K 1/4W
R883	ERDS2TJ392T	3.9K 1/4W
R884	ERDS2TJ562T	5.6K 1/4W
R885	ERDS2TJ822T	8.2K 1/4W
R886	ERDS2TJ152T	1.5K 1/4W
R887	ERDS2TJ222T	2.2K 1/4W
R888	ERDS2TJ272T	2.7K 1/4W
R889	ERDS2TJ392T	3.9K 1/4W
R890	ERDS2TJ562T	5.6K 1/4W
R891	ERDS2TJ822T	8.2K 1/4W
		CAPACITORS
C1	ECBT1H4R7KC5	4.7P 50V
C2	ECBT1H102KB5	1000P 50V
C3	ECBT1C332MR5	3300P 16V
C4	ECEA1HN010SB	1 50V
C5	ECBT1C103MS5	0.01 16V
C6	ECBT1H102KB5	1000P 50V
C8	ECBT1H102KB5	1000P 50V
C9	ECEA1AU101B	100 10V
C10	ECBT1H6R8KC5	6.8P 50V
C12	ECBT1H102KB5	1000P 50V
C13	ECBT1H102KB5	1000P 50V
C14	ECBT1H180JC5	18P 50V
C15	ECBT1H4R7KC5	4.7P 50V
C16	ECBT1H6R8KC5	6.8P 50V
C17	ECBT1H2R2KC5	2.2P 50V
C18	ECFR1C473MR	0.047 16V
C19	ECBT1H680J5	68P 50V
C20	ECBT1H1R5MC5	1.5P 50V
C21	ECBT1H102KB5	1000P 50V
C22	ECBT1H102KB5	1000P 50V

Ref. No.	Part No.	Values & Remarks
C23	ECBT1H331KB5	330P 50V
C24	ECBT1C103MS5	0.01 16V
C25	ECBT1H102KB5	1000P 50V
C26	ECBT1H270J5	27P 50V
C27	ECBT1H300J5	30P 50V
C28	ECEA1AU101B	100 10V
C29	ECBT1H102KB5	1000P 50V
C31	ECBT1H471KB5	470P 50V
C32	ECBT1H180JC5	18P 50V
C35	ECBT1H101KB5	100P 50V
C36	ECBT1H102KB5	1000P 50V
C38	ECEA0JU101B	100 6.3V
C39	ECBT1H101KB5	100P 50V
C40	ECFR1C223MR	0.022 16V
C41	ECBT1H102KB5	1000P 50V
C42	ECEA1HKA010B	1 50V
C43	ECEA0JU101B	100 6.3V
C44	ECFR1C473MR	0.047 16V
C45	ECFR1C103MR	0.01 16V
C46	ECEA1CKA100B	10 16V
C47	ECBT1C332MR5	3300P 16V
C48	ECBT1H681KB5	680P 50V
C49	ECEA1HKA010B	1 50V
C50	ECFR1C153MR	0.015 16V
C51	ECFR1C153MR	0.015 16V
C52	ECEA1HKA2R2B	2.2 50V
C53	ECEA1HKA010B	1 50V
C54	ECEA1HKA010B	1 50V
C55	ECBT0J153MS5	0.015 6.3V
C56	ECFR1C223MR	0.022 16V
C57	ECBT1H102KB5	1000P 50V
C58	ECBT1H331KB5	330P 50V
C59	ECBT1H471KB5	470P 50V
C61	ECBT1C103MS5	0.01 16V
C63	ECBT1H102KB5	1000P 50V
C65	ECBT1H120JC5	12P 50V
C67	ECBT1H102KB5	1000P 50V
C70	ECBT1H331KB5	330P 50V
C79	ECBT1C103MS5	0.01 16V
C91	ECBT1H102KB5	1000P 50V
C92	ECBT1C103MS5	0.01 16V
C93	ECBT1H102KB5	1000P 50V
C101	ECBT1H102KB5	1000P 50V
C102	ECEA1AU101B	100 10V
C103	ECEA1HU010B	1 50V
C104	ECFR1C273MR	0.027 16V
C105	ECBT1H101KB5	100P 50V
C106	ECBT1C122MR5	1200P 16V
C107	ECEA1CU100B	10 16V
C108	ECBT1H102KB5	1000P 50V
C109	ECEA1HU010B	1 50V
C110	ECBT1H102KB5	1000P 50V
C111	ECEA1HU010B	1 50V
C112	ECEA1HU010B	1 50V

Ref. No.	Part No.	Values & Remarks
C113	ECBT1H101KB5	100P 50V
C114	ECEA1HUR33B	0.33 50V
C115	ECEA1HUR47B	0.47 50V
C116	ECEA1HU0R1B	0.1 50V
C117	ECFR1C103MR	0.01 16V
C118	ECEA1HU0R1B	0.1 50V
C121	ECEA1HU010B	1 50V
C122	ECBT1H471KB5	470P 50V
C123	ECBT1H102KB5	1000P 50V
C124	ECEA1AKA101B	100 10V
C125	ECEA1CU470B	47 16V
C126	ECEA1AU102B	1000 10V
C127	ECQV1H224JZ3	0.22 50V
C201	ECBT1H102KB5	1000P 50V
C202	ECEA1AU101B	100 10V
C203	ECEA1HU010B	1 50V
C204	ECFR1C273MR	0.027 16V
C205	ECBT1H101KB5	100P 50V
C206	ECBT1C122MR5	1200P 16V
C207	ECEA1CU100B	10 16V
C208	ECBT1H102KB5	1000P 50V
C209	ECEA1HU010B	1 50V
C210	ECBT1H102KB5	1000P 50V
C211	ECEA1HU010B	1 50V
C212	ECEA1HU010B	1 50V
C213	ECBT1H101KB5	100P 50V
C214	ECEA1HUR33B	0.33 50V
C215	ECEA1HUR47B	0.47 50V
C216	ECEA1HU0R1B	0.1 50V
C217	ECFR1C103MR	0.01 16V
C218	ECEA1HU0R1B	0.1 50V
C221	ECEA1HU010B	1 50V
C222	ECBT1H471KB5	470P 50V
C223	ECBT1H102KB5	1000P 50V
C224	ECEA1AKA101B	100 10V
C225	ECEA1CU470B	47 16V
C226	ECEA1AU102B	1000 10V
C227	ECQV1H224JZ3	0.22 50V
C301	ECFR1C223MR	0.022 16V
C302	ECEA1HUR22B	0.22 50V
C303	ECBT1H102KB5	1000P 50V
C305	ECEA1HU010B	1 50V
C307	ECEA1AU101B	100 10V
C308	ECEA1CU220B	22 16V
C309	ECEA1AU101B	100 10V
C310	ECFR1C473MR	0.047 16V
C311	ECEA1EU4R7B	4.7 25V
C312	ECBT1C103MS5	0.01 16V
C313	ECQP2A151JZT	150P 100V
C314	ECBT1C103MS5	0.01 16V
C315	ECQP2A331JZT	330P 100V
C316	ECQB1H122JF3	1200P 50V
C317	ECEA1AU101B	100 10V
C318	ECBT1C103MS5	0.01 16V

Ref. No.	Part No.	Values & Remarks
C321	ECBT1C103MS5	0.01 16V
C323	ECEA1HU010B	1 50V
C326	ECBT1H102KB5	1000P 50V
C327	ECEA1CU220B	22 16V
C328	ECEA1CU100B	10 16V
C329	ECFR1C333MR	0.033 16V
C330	ECEA1CU100B	10 16V
C331	ECEA1AU101B	100 10V
C332	ECEA1CU100B	10 16V
C333	ECEA1CU331B	330 16V
C335	ECEA1CU220B	22 16V
C336	ECEA1CU470B	47 16V
C337	ECEA1CU470B	47 16V
C338	ECEA1AU101B	100 10V
C339	ECEA1AU221B	220 10V
C340	ECEA1AU101B	100 10V
C341	ECEA1CU100B	10 16V
C342	ECBT1H471KB5	470P 50V
C343	ECA1EM332BV	3300P 25V [M]
C345	ECEA1HU101B	100 25V
C346	ECEA1EU101B	100 25V
C347	ECEA1HU4R7B	4.7 50V
C351	ECEA1AU101B	100 10V
C352	ECEA1AU101B	100 10V
C353	ECEA1CU100B	10 16V
C354	ECEA1CU100B	10 16V
C355	ECEA1CU100B	10 16V
C356	ECEA1AU101B	100 10V
C357	ECBT1C103MS5	0.01 16V
C358	ECBT1H331KB5	330P 50V
C501	ECQV1H104JZ3	0.1 50V
C502	ECQV1H104JZ3	0.1 50V
C503	ECQV1H104JZ3	0.1 50V
C504	ECQV1H104JZ3	0.1 50V
C802	ECEA0JKS101B	100 6.3V
C803	ECBT1H104ZF5	0.1 50V
C804	ECBT1H104ZF5	0.1 50V
C808	ECBT1H331KB5	330P 50V
C809	ECBT1H331KB5	330P 50V
C811	ECBT1H104ZF5	0.1 50V
C812	ECBT1H331KB5	330P 50V
C813	ECBT1H331KB5	330P 50V
C817	ECBT1H104ZF5	0.1 50V
C818	ECBT1H102KB5	1000P 50V
C819	ECBT1H102KB5	1000P 50V
C820	ECBT1H102KB5	1000P 50V
C821	ECBT1H820KB5	82P 50V
C822	ECBT1H101KB5	100P 50V
C823	ECBT1H680J5	68P 50V
C824	ECBT1H820KB5	82P 50V
C825	ECBT1H220JC5	22P 50V
C826	ECBT1H180JC5	18P 50V
C827	ECEA1HKA010B	1 50V
C828	ECBT1H331KB5	330P 50V

Ref. No.	Part No.	Values & Remarks
C829	ECBT1H101KB5	100P 50V
C830	ECBT1H331KB5	330P 50V
C831	ECBT1H331KB5	330P 50V
C833	ECBT1H331KB5	330P 50V
C836	ECBT1H104ZF5	0.1 50V
C838	ECBT1H102KB5	1000P 50V
C839	ECEA0JKS220B	22 6.3V
C840	ECBT1H331KB5	330P 50V
C841	ECBT1H331KB5	330P 50V
C843	ECEA0JKS101B	100 6.3V
C844	ECBT1H104ZF5	0.1 50V
C845	ECBT0J223MS5	0.022 6.3V
C846	ECBT1C103MS5	0.01 16V
C847	ECBT1C103MS5	0.01 16V
C848	ECBT1H331KB5	330P 50V
C852	ECBT1H331KB5	330P 50V
C854	ECBT1H331KB5	330P 50V
C861	ECBT1H102KB5	1000P 50V
C862	ECBT1H102KB5	1000P 50V
C863	ECBT1H102KB5	1000P 50V
C864	ECBT1H102KB5	1000P 50V
C865	ECBT1H331KB5	330P 50V
C868	ECBT1C103MS5	0.01 16V
C883	ECBT1H102KB5	1000P 50V
C884	ECBT1H102KB5	1000P 50V
		< SERVO >
		RESISTORS
R701	ERJ6GEYJ100	10 1/10W
R702	ERJ6GEYJ471V	470 1/10W
R703	ERJ6GEYJ823	82K 1/10W
R704	ERJ6GEYJ102A	1K 1/10W
R705	ERJ6GEYJ103V	10K 1/10W
R706	ERJ6GEYJ102A	1K 1/10W
R707	ERJ6GEYJ473V	47K 1/10W
R708	ERJ6GEYJ104V	100K 1/10W
R709	ERJ6GEYJ683V	68K 1/10W
R711	ERJ6GEYJ154V	150K 1/10W
R712	ERJ6GEYJ221V	220 1/10W
R714	ERJ6GEY0R00A	0 1/10W
R717	ERJ6GEYJ102A	1K 1/10W
R718	ERJ6GEYJ102A	1K 1/10W
R719	ERJ6GEYJ102A	1K 1/10W
R720	ERJ6GEYJ102A	1K 1/10W
R721	ERJ6GEYJ101V	100 1/10W
R722	ERJ6GEYJ563V	56K 1/10W
R723	ERJ6GEYJ182V	1.8K 1/10W
R724	ERJ6GEYJ333V	33K 1/10W
R725	ERJ6GEYJ472V	4.7K 1/10W
R726	ERJ6GEYJ473V	47K 1/10W
R727	ERJ6GEYJ103V	10K 1/10W
R728	ERJ6GEYJ392V	3.9K 1/10W
R730	ERJ6GEYJ331V	330 1/10W

Ref. No.	Part No.	Values & Remarks
R731	ERJ6GEYJ392V	3.9K 1/10W
R734	ERJ6GEYJ101V	100 1/10W
R735	ERJ6GEYJ101V	100 1/10W
R736	ERJ6GEYJ101V	100 1/10W
R738	ERJ6GEYJ223V	22K 1/10W
R739	ERJ6GEYJ681V	680 1/10W
R741	ERJ6GEYJ562V	5.6K 1/10W
R742	ERJ6GEYJ562V	5.6K 1/10W
R743	ERJ6GEYJ562V	5.6K 1/10W
R744	ERJ6GEYJ103V	10K 1/10W
R745	ERJ6GEYJ155V	1.5M 1/10W
R748	ERJ6GEYJ182V	1.8K 1/10W
R749	ERJ8GEYJ103V	10K 1/8W
		CAPACITORS
C701	ECEA0JKA220	22 6.3V
C702	ECEA1HKA010I	1 50V
C703	ECEA0JKA101I	100 6.3V
C704	ECUZ1E104MBN	0.1 25V
C705	ECEA1HKA010I	1 50V
C706	ECUE1H101JCN	100P 50V
C707	ECUV1E273KBN	0.027 25V
C708	ECUE1H472KBN	4700P 50V
C709	ECUE1C473KBN	0.047 16V
C710	ECUE1H152KBN	1500P 50V
C711	ECUZ1E104MBN	0.1 25V
C712	ECUZ1E104MBN	0.1 25V
C713	ECUV1C104MBM	0.1 16V
C714	ECEA0JKA101I	100 6.3V

Ref. No.	Part No.	Values & Remarks
C715	ECEA0JKA470I	47 6.3V
C716	ECUE1H561KBN	560P 50V
C717	ECUZ1E104MBN	0.1 25V
C718	ECUV1C224KBM	0.22 16V
C721	ECUE1H270JCN	27P 50V
C722	ECUE1H270JCN	27P 50V
C723	ECEA1AKA221I	220 10V
C724	ECUV1C104MBM	0.1 16V
C725	ECUE1H102KBN	1000P 50V
C726	ECUE1H102KBN	1000P 50V
C727	ECEA1HPK010I	1 50V
C728	ECEA1HPK010I	1 50V
C730	ECUZ1E104MBN	0.1 25V
C731	ECEA0JK221I	220 6.3V
C732	ECEA0JK221I	220 6.3V
C733	ECUZ1E104MBN	0.1 25V
C734	ECEA1AKA221I	220 10V
C735	ECUZNE104MBN	0.1 25V
C736	ECUZNE104MBN	0.1 25V
C737	ECUZNE104MBN	0.1 25V
C738	ECUV1C154KBN	0.15 16V
C742	ECUV1E273KBN	0.027 25V
C743	ECUZNE104MBN	0.1 25V
C744	ECUE1E822KBN	8200P 25V
C745	ECUE1C473MBN	0.047 16V
C746	ECUE1H050DCN	5P 50V
C747	ECUE1H222KBN	2200P 50V
C748	ECUV1H471KBM	470P 50V

Ref. No.	Part No.	Values & Remarks

■ PACKING MATERIALS & ACCESSORIES

Notes: * Important safety notice:
Components identified by ⚠ mark have special characteristics important for safety.
Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low noise (resistors), etc are used.
When replacing any of these components, be sure to use only manufacturer's specified parts shown in the parts list.
* The parenthesized indications in the Remarks columns specify the areas. (Refer to the cover page for area)
Parts without these indications can be used for all areas.
* The "(SF)" mark denotes the standard part.
* Remote Control Unit:
Supply period for three years from terminal of production.
* [M] Indicates in the Remarks columns indicates parts supplied by **MESA.**

Ref No.	Part No.	Part Name & Description	Remarks
		PACKING MATERIALS	
P1	RPF0118	MIRAMAT BAG	[M]
P2	RPG1979	GIFT BOX	[M] (EB)
P2	RPG1980	GIFT BOX	[M] (EG)
P3	RPN0757	POLYFOAM (SET)	[M]

Ref No.	Part No.	Part Name & Description	Remarks
		ACCESSORIES	
A1	RJA0019-2K	AC CORD	(SF) ⚠
A1	VJA0733	AC CORD	(SF) ⚠
A2	RFKSXDS25EGK	INSTR MNL ASS'Y	[M] (EG)
A2	RQT2315-B	INSTRUCTION MANUAL	[M] (EB)
A3	EUR642162	REMOTE CONTROLLER	[M]

MESA Printed in Singapore
P940412000 P/A/J/S

ORDER NO. MD9507094S5
A6

Service Manual

Supplement

Portable Stereo CD System

Radio Cassette

RX-DS25

Colour

(K) . . . . . Black Type

- Please file and use this supplement manual together with the service manual for the following Model No. (Order No.) :
  RX-DS25P/PC-K.....MD9405063C1(Original)
  RX-DS25EB/EG-K.....MD9404039C2(Original)
- This Supplement is provided to indicate the shape changes to the existing Service Manual for the above mentioned models which are equipped with SG-20 cassette mechanism. Please use it to update your Service Manual for future reference.

Area

Suffix for Model No.	Area	Colour
(P)	U.S.A.	(K)
(PC)	Canada	
(EB)	Great Britain	
(EG)	Europe, Germany and Italy	

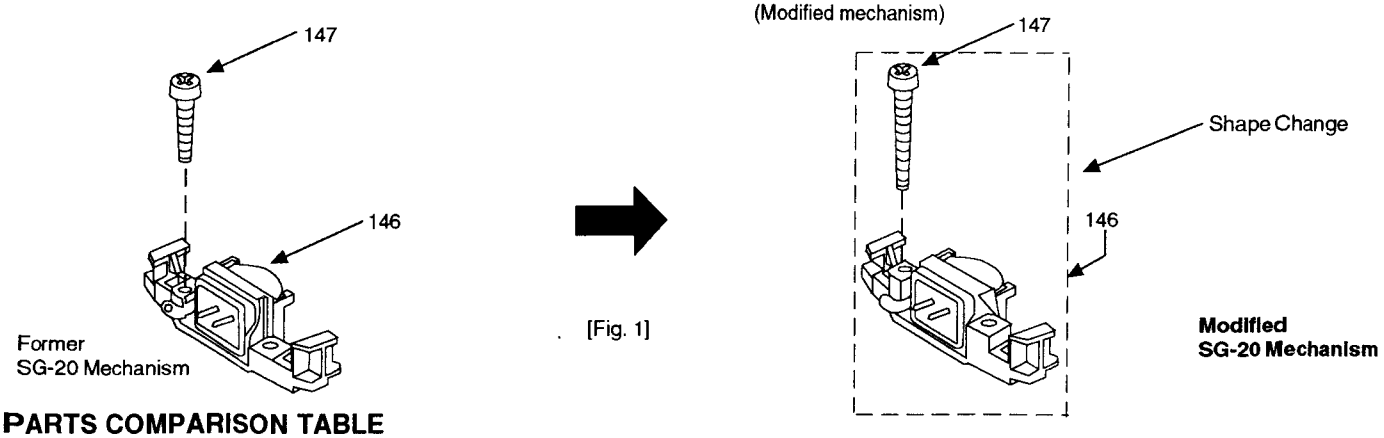
■ HOW TO IDENTIFY THE UNITS WITH NEW AZTEC HEAD AND SCREW

- The modified mechanism can be identified by their serial number suffix label affixed on the rear side of the unit (Refer to Table 1).
- The shape changes between the former and modified mechanisms are illustrated as shown below (Refer to Fig. 1).

[Table 1]

Applicable Model	Serial No. Suffix
RX-DS25P/PC/EB/EG-K	C

• Serial number (for example)
D C 1 E Ⓐ 2 3 4 5 6
(Former mechanism)
D C 1 E Ⓑ 2 3 4 5 6
(Modified mechanism)



[Fig. 1]

■ PARTS COMPARISON TABLE

Notes : [M] Indicates parts that are supplied by **MESA**.

Ref. No.	Description	Change of Parts Number Original	Change of Parts Number Supplement	Remarks
MECHANISM PARTS LIST				
146	R/P HEAD ASS'Y	RBR4CY016-M [M]	RFKRXDT30PK [M]	CHANGED
147	SCREW	XTN2+12F [M]	XTN2+14F [M]	CHANGED

⚠ WARNING

This service information is designed for experiense repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

Panasonic®

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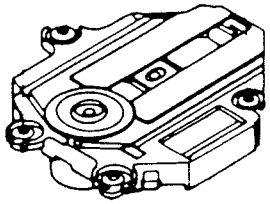
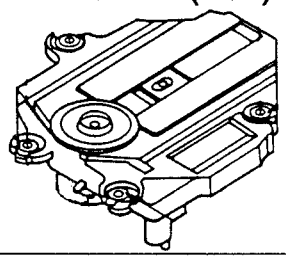
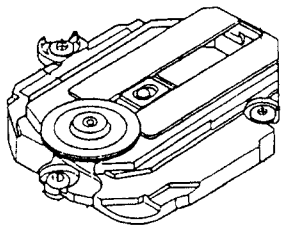
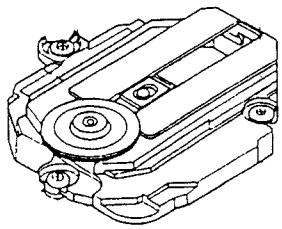
MESA Printed in Singapore
G950715000S/A

ORDER NO. AD9602025T0
A1

Technical Information

Object: Traverse deck assemblies used on CD players manufactured by our company have gone through many changes that would have inconvenienced you greatly in your service activities.
For easy detection of the differences, we suggest you to classify relevant models by the traverse deck assemblies as tabulated below. Please make practical use of the table in your service work.
For detail, please see the next page.

TRV UNIT ASS'Y	MODEL NO.	
SODD110Z (CU1) 	SA-CH55, SA-HD52, SL-CH700, SL-CH900, SL-E10, SL-PG100, SL-PG300, RX-DT55P	
	(CU1) → (CU2) Midway-changed Model	
	SL-PJ28, SL-PJ38, SA-CH11, SA-CH33, SL-PJ316, SL-E10, RX-DT505, RX-DT707, RX-DT909, RX-DS303, RX-DT610, RX-DT630, RX-DS101, RX-DS202, RX-DT680	
AE0111Z (CU2) 	SA-CH350, SL-CH550, SL-CH750, SL-CH950, SL-PG340, SL-PG440, RX-DT501, RX-DT701, RX-DT670, RX-DS101, RX-DS102, RX-DT401	
	(CU2C) → (CU3C) Midway-changed Model	(CU2G) → (CU3G)
	SA-CH150, SL-PG340, SL-PG440, SA-DH30, SL-PJ316, SL-DH66, RX-DT501, RX-DT401, RX-DT610, RX-DT630, RX-DT680	SL-CH505, SL-CH707
RAE0113Z (CU3) 	SA-CH31, SACH32, SA-CH72, SA-CH73, SA-CH170, SL-CH80, SL-CH90, SL-CH404, SL-CH510G, SL-CH610, SL-CH515, SL-CA1080, SL-CA1060, SL-PJ28, SL-PJ38, SL-PS840, SL-PG350, SL-PG450, SL-VC910, SL-VM500, RX-DS15, RX-DS25, RX-DS35, RX-DT620, RX-DT640, RX-E250, RX-E300, RX-DT650, RX-DT690, RX-DS550	
	(CU3C) → (CU4C) Midway-changed Model	
	SL-CH530	
RAE0150Z (CU4) 	RX-ED70	

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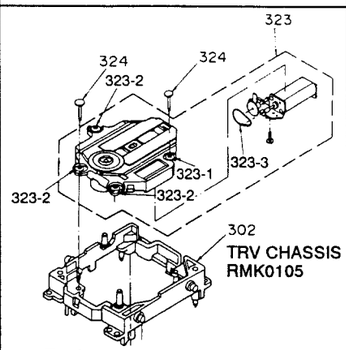
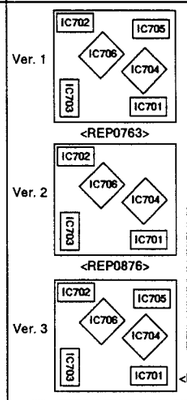
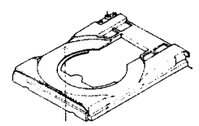
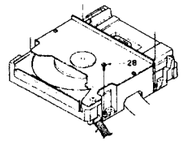
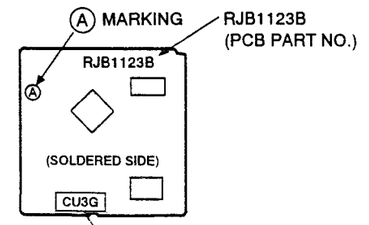
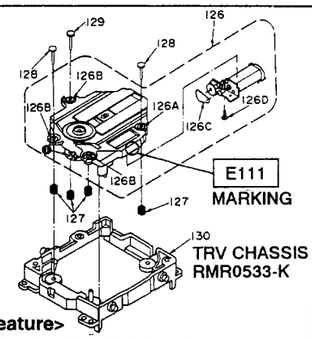
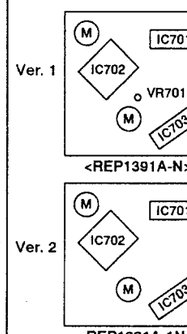
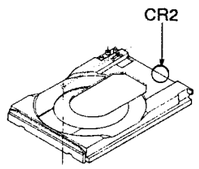
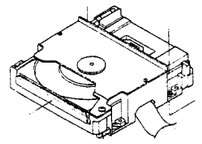
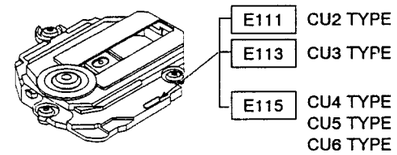
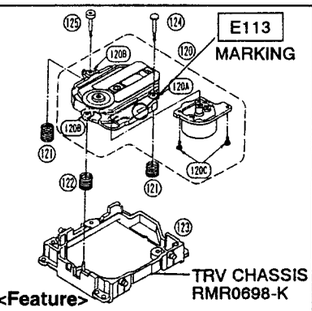
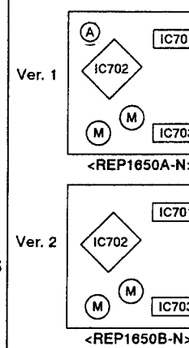
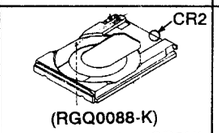
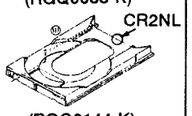
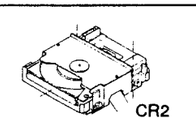
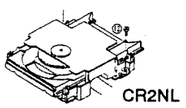
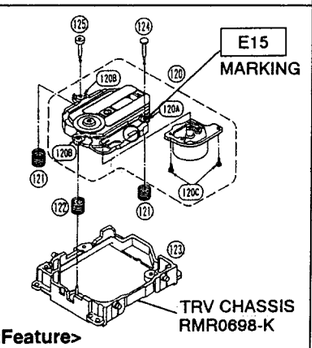
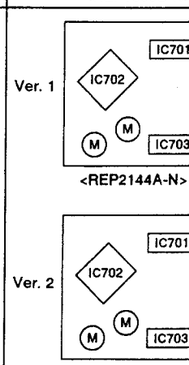
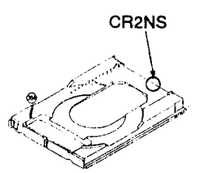
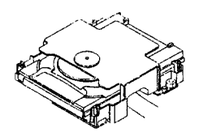
CD TRAVERSE CAREER TABLE

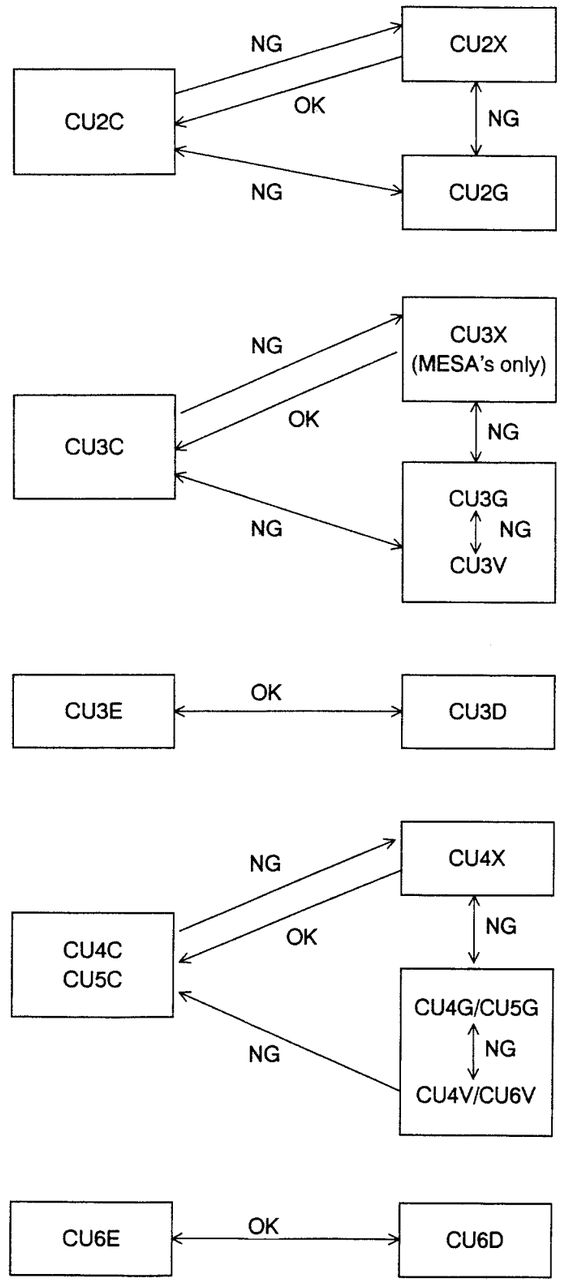
T-1

	TRV UNIT ASS'Y	TRV CONSTRUCTION & FEATURES	SERVO P.C.B. & IC PART NO.	TRAY	CD MECANISM NO.	CD UNIT PART NO.	OSC.	USE	P.C.B. ASS'Y PART NO. / P.C.B. PART NO.	REMARKS
1	S0DD110Z (CU1 TYPE)	 **<Feature>** • TRV SUPPORTED, 2-POINT TYPE	 Ver. 1: IC701 AN8800SCE2; IC702 TCA0372DM2R; IC703 AN8377N; IC704 MN6650A; IC705 MN6475A; IC706 MN6626 Ver. 2 / Ver. 3: IC701 AN8800SCE2 / AN8800SCE2; IC702 TCA0372DM2R / TCA0372DM2R; IC703 AN8377N / AN8377N; IC704 MN6650A / MN6650A; IC705 — / MN6477A; IC706 MN6626 / MN6626	 (RMK0103)	 CR1	CUI	CERAMIC — CERAMIC	CD	REP0763 / (RJB0418A) REP0876 / (RJB0493A) REP1203 / (RJB0418B)	**〔PART NO. MARKING SAMPLE〕** (CD SERVO P.C.B.)  CU3G For CD-G CU3V For VIDEO CD
2	RAE0111Z (CU2 TYPE)	 **<Feature>** • TRV SUPPORTED, 4-POINT TYPE	 Ver. 1: IC701 AN8802SCE1V; IC702 MN66271RA; IC703 AN8389SE1; VR701 Best Eye Ver. 2: IC701 AN8802SCE1V; IC702 MN66271RA; IC703 AN8389SE1; VR701 Deleted	 (RGQ0088-K)	 CR2	CU2C	CERAMIC	CD	REP1391A-N / (RJB0821A)	(TRV DECK) 
						CU2X	CRYSTAL	CD	REP1391B-N / (RJB0821B)	
						CU2G	CRYSTAL	CD-G	REP1391C-N / (RJB0821C)	
3	RAE0113Z (CU3 TYPE)	 **<Feature>** • TRV MOTOR (NEW TYPE) • TRV SUPPORTED, 3-POINT TYPE	 Ver. 1: IC701 AN8802SCE1V; IC702 MN66271RA; IC703 AN8389SE1; X701 RSXZ16M9M02T (SERAMIC) Ver. 2: IC701 AN8802SCE1V; IC702 MN66271RA; IC703 AN8389SE1; X701 RSXB16M9J01T (CRYSTAL)	 (RGQ0088-K)  (RGQ0144-K) (PGT0014) (RFKNLCH555PK)	 CR2  CR2NL CR3M (3-TRAY ROTARY CHANGER)	CU3C	CERAMIC	CD	REP1650A-N / RJB1123A Ⓜ (RJB1123C)	**〔CAUTIONS〕** 1. After discontinuation of production, the P.C.B. cannot be supplied. 2. Supply of the P.C.B. is for models manufactured in 1995. 3. Ⓜ mark is on the P.C.B. manufactured by MESA. 4. TRV: Traverse 5. ▨ Mark means that the part is under development at present. 6. Ⓐ Mark means that the part has been changed from CU2 type to CU3 type and it is not interchangeable because of difference in Trv Deck, Servo PCB., Motor, etc.
						CU3G	CRYSTAL	CD-G	REP1650B-N / RJB1123B Ⓜ (RJB1123F)	
						CU3V	CRYSTAL	VIDEO CD	REP1893A-N / (RJB1123E)	
						CU3E	CRYSTAL	CD CHANGER	REP1843B-N / (RJB1123H)	
						CU3D	CRYSTAL	CD CHANGER	REP1843A-N / (RJB1123D)	
4	RAE0150Z (CU4 TYPE) (CU5 TYPE) (CU6 TYPE)	 **<Feature>** • OPTICAL PICKUP (NEW TYPE) • TRV SUPPORTED, 3-POINT TYPE	 Ver. 1: IC701 AN8835SBE1; IC702 MN662740RM1; IC703 AN8389SE1; X701 RSXZ16M9M01T (SERAMIC) Ver. 2: IC701 AN8835SBE1; IC702 MN662740RM1; IC703 AN8389SE1; X701 RSXB16M9J02T (CRYSTAL)	 (RGQ0143-K)	 CR2NS SL4 (5-TRAY ROTARY CHANGER) CR5T (TOP OPEN 3-TRAY) CR50 (CHANGER)	CU4/CU5C	CERAMIC	CD	REP2144A-N / (RJB1478A)	
						CU4X	CRYSTAL	CD	REP2144C-N / (RJB1478C)	
						CU4/CU5G	CRYSTAL	CD-G	REP2144B-N / (RJB1478B)	
						CU4/CU5V	CRYSTAL	VIDEO CD	REP2144E-N / (RJB1478E)	
						CU4/CU6E	CERAMIC	CD CHANGER	REP2144D-N / (RJB1478D)	
						CU6D	CRYSTAL	CD CHANGER	REP2144F-N / (RJB1478F)	

	TRV UNIT ASS'Y	'91 MODELS	Midway Changeover Models (Oct. '92 Onward)
1	S0DD110Z (CU1 SERIES)	SA-HD52 RX-DT55 (Top open) SA-CH55 SL-CH700 SL-CH900 SL-E10 SL-PG100 SL-PG300	CU1 ⟶ CU2 SL-PJ28 RX-DS101 (Top open) SL-PJ38 RX-DS202 (Top open) SL-PJ316 RX-DS303 (Top open) SA-CH11 RX-DT610 (Top open) SA-CH33 RX-DT630 (Top open) RX-DT680 (Top open)
2	RAE0111Z (CU2 SERIES)	'93 MODELS SL-CH550 RX-DT670 (Top open) SL-CH750 RX-DT401 (Top open) SL-CH950 RX-DT501 (Top open) SA-CH350 RX-DT701 (Top open) SL-PG340 SL-PG440	Midway Changeover Models (May. '94 Onward) CU2 ⟶ CU3 SA-CH150 RX-DT401 (Top open) SL-CH505 RX-DT501 (Top open) SL-CH707 RX-DT610 (Top open) SL-DH30 RX-DT630 (Top open) SL-DH66 RX-DT670 (Top open) SL-PJ28 RX-DT675 (Top open) SL-PG340 RX-DT680 (Top open) SL-PG440 SL-PJ316
3	RAE0113Z (CU3 SERIES)	'94 MODELS SA-CH31 RX-DS15 (Top open) SA-CH303 RX-DS25 (Top open) SL-CH40 RX-DS35 (Top open) SL-CH80 RX-DT620 (Top open) SL-CH90 RX-DT640 (Top open) SL-CH515 RX-E250 (Top open) SL-CH909 RX-E300 (Top open) SL-PD665 (5-Tray Changer) SL-PD667 (5-Tray Changer) SL-PD867 (5-Tray Changer) SL-CH967 (5-Tray Changer)	'95 MODELS SA-CH30 SL-PG350 RX-DS05 SA-CH32 SL-PG450 RX-DS07 SA-CH72 SL-CH51 RX-DT401 (Top open) SA-CH73 SL-VM500 RX-DT600 (Top open) SA-CH52 SL-VM510 RX-DT670 (Top open) SA-CH170 SL-CA1080 RX-DS550 (Top open) SL-CH404 SL-CA1060 SL-CH505 SL-CA1180 SL-CH510 SL-VC910 SL-CH610 SL-PJ28 SL-PJ38	Midway Changeover Models (Sep. '95 Onward) CU3 ⟶ CU4 SL-CH530 RX-DS10 SL-CH538 RX-DS14 SL-CH730 RX-DS22 SL-CH738 SL-VM510 SL-PD349 RX-DT650 SL-PD469 RX-DT690 SL-PD687 RX-DT30 SL-PD787 SL-PD887 SL-PD987
4	RAE0150Z (CU4 SERIES) (CU5 SERIES) (CU6 SERIES)	'95 MODELS RX-ED70 RX-ES50 SC-CH570 SC-CH330 RX-ED90 SC-HD10 SC-CH74 RX-ED100 SC-CA01 SC-CH75 RX-DS790 SC-HD7 SC-CH34 RX-DS750 SC-CA7 RX-DS770 SC-CA10 RX-DT530 SC-CH730 RX-DS520 SC-CH770 RX-DS515	

INTERCHANGEABILITY

- No interchangeability because each type of TRV has a different shape.
- Only some of Servo P.C.B. can be intervchanged as follows:



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